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U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION


KEY TO METEOROLOGICAL RECORDS DOCUMENTATION NO. 5.37

CATALOGUE OF METEOROLOGICAL
SATELLITE DATA—TIROS VII
TELEVISION CLOUD
PHOTOGRAPHY

Part 3

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ROBERT M. WHITE, Administrator

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WASHINGTON, D. C. : 1965

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PURPOSE

The Key To Meteorological Records Documentation Series has been established to provide guidance information to research personnel making use of climatological data.

Frequently users of such data have found it necessary to spend a great deal of time establishing whether the criteria for observing or computing various elements have changed over the period of record or in what form the data are available.

It is therefore hoped that the presentation of this series may not only conserve valuable time but may have a direct influence in improving the accuracy of research results.

PREFACE

This bulletin is one of a series describing the television cloud photographs obtained by the TIROS VII meteorological satellite. It contains a listing of the cloud photograph sequences taken during the period from July 1, 1964 to December 31, 1964, together with a set of maps showing a schematic nephanalysis for each sequence. It also describes how copies of these photographs may be obtained from the National Weather Records Center. Similar material covering subsequent periods of this satellite's operation will be published in separate catalogues.

Documentation Section
National Weather Satellite Center

EARLIER TIROS DATA CATALOGUES

Catalogues of earlier TIROS Meteorological Satellite data are available in this series, as follows:

- No. 5.31 "Catalogue of Meteorological Satellite Data - TIROS I Television Cloud Photography", published in 1961, price 70 cents.
- No. 5.32 "Catalogue of Meteorological Satellite Data - TIROS II Television Cloud Photography", published in 1963, price 20 cents.
- No. 5.33 "Catalogue of Meteorological Satellite Data - TIROS III Television Cloud Photography", published in 1962, price 70 cents.
- No. 5.34 "Catalogue of Meteorological Satellite Data - TIROS IV Television Cloud Photography", published in 1963, price \$1.00.
- No. 5.35 "Catalogue of Meteorological Satellite Data - TIROS V Television Cloud Photography", published in 1964, price \$1.75.
- No. 5.36 "Catalogue of Meteorological Satellite Data - TIROS VI Television Cloud Photography", published in 1964, price \$2.00.
- No. 5.37 "Catalogue of Meteorological Satellite Data - TIROS VII Television Cloud Photography Part 1 June 19, 1964 to December 31, 1963", published in 1965, price \$1.25.
- No. 5.37 "Catalogue of Meteorological Satellite Data - TIROS VII Television Cloud Photography Part 2 January 1, 1964 to June 30, 1964", published in 1965, price \$1.00.
- No. 5.38 "Catalogue of Meteorological Satellite Data - TIROS VIII Television Cloud Photography Part 1 December 21, 1963 to June 30, 1964", in press.

CATALOGUE OF METEOROLOGICAL SATELLITE DATA --
TIROS VII TELEVISION CLOUD PHOTOGRAPHY
PART 3 -- July 1, 1964
to December 30, 1964

The TIROS VII meteorological satellite was launched on June 19, 1963 by the National Aeronautics and Space Administration. Traveling in a nearly circular orbit, it averaged about 343 nautical miles above the earth's surface, with a difference of 16 nautical miles between apogee and perigee. It had an orbital period of 97.4 minutes which corresponds to fourteen and a fraction passes around the earth each day. The orbit was inclined at an angle of 58.2° to the earth's equatorial plane and thus picture coverage was obtained only in the zone bounded roughly by 65°N . and S. latitude.

The satellite was spinning at a rate that varied between 8 and 12 rpm. Being spin-stabilized, the spin axis orientation in space changed only gradually during its operational lifetime. Its two cameras were mounted with their optical axes parallel to the spin axis and were able to view the earth during less than half of each orbital pass. Usable picture coverage was thus restricted to the portion of each orbital pass during which the underlying earth was both sunlit and within view of the cameras. Each of the two cameras on TIROS VII had a wide-angle lens which covered an area about 700 miles square when the optical axis was normal to the earth's surface. At other times a larger area was viewed in oblique perspective.

Camera action aboard TIROS VII was controlled from three Command-and-Data-Acquisition (CDA) stations: one located at Wallops Station near Chincoteague, Va.; one at Pacific Missile Range, Point Mugu, Calif.; and the other at Gilmore Creek, Fairbanks, Alaska. The satellite came within radio range of one or more of these stations for a few minutes each on 8 or sometimes 9 of its 14 daily passes. During these radio contacts the station could:

1. receive a series of television pictures directly as they were taken, if it was daytime and the optical axes were appropriately oriented;
2. command the system to take pictures remote from the CDA station after a specified time delay and store them on tape aboard the satellite;
3. play back one previously commanded tape sequence from each camera.

Pictures received by the direct mode were taken only over the United States and nearby ocean areas, while tape sequences usually show other parts of the world. In the region traversed during the five or six consecutive passes when the satellite could not be contacted, picture coverage was limited to one tape sequence by each camera each day.

Tape pictures were obtained in sequences up to 32 frames each. Direct sequences were usually shorter and more variable in length. Occasionally the direct pictures obtained at one station on one pass may be grouped into two sequences if the series were interrupted to permit playback of a tape sequence. The time interval between frames was either 10 or 30 seconds in most direct sequences, and was always 30 seconds in tape sequences.

The pictures are virtually square with some small distortion resulting from the particular setting of the electronic readout equipment. "Fiducial marks" etched on the face of the vidicon tube appear in the picture image as a central cross and four L-shaped corners, although they may show poorly or not at all against a dark background.

Since the satellite was spinning, the earth's image rotates from frame to frame by an amount that depends on how much the satellite's spin rate departed from being an integral number of rotations during the picture-taking interval. The rotation rate may be considered constant during any one sequence. The center of rotation, which is the point where the optical and spin axes intersect the image plane, is not quite at the central fiducial cross mark. See Reference 3 for photogrammetric information needed to precisely orient TIROS VII pictures.

Cloud picture transmissions received at CDA stations were displayed on a television screen and simultaneously recorded on magnetic tape. A 35 mm. camera photographed the television screen, including also a lighted panel board mounted underneath. The panel board information provides a legend for each picture including camera number, mode (TAPE or DIRECT), frame number, orbit pass number, and station initial preceded by "7" or "VII" for TIROS VII. Occasionally a clock appears in the legend but the time shown has no relation to picture taking time.

In the example of figure 1, the legend indicates the picture was received and taken on orbital pass number 7813 and that it is a TAPE picture taken by camera 2. The letter P at right center following the number "VII" indicates the picture was acquired at the Point Mugu, California station.

The panel board legend also contains a series of numerals whose sum indicates the frame number. In figure 1, the frame number is 29, representing the sum of 16, 8, 4 and 1. (At the bottom of the panel board is a similar series of numerals intended to give information on sun angle, but the system did not work properly and the values cannot be easily interpreted.) Within each sequence, the indicated frame numbers increase in the order that the pictures were received at the CDA station. For direct mode this is the time order in which the pictures were taken. But tape sequences were played back to the station in reverse time order. Pictures of both modes are arranged on the film in order of increasing frame number; therefore it is important to note that this arrangement is correct time order for direct sequences, but is reverse time order for tapes.

The orderly time sequence of pictures is sometimes interrupted by spurious noise frames or complicated by skipped frames. In such cases the frame numbers are not a dependable indicator of real picture counts. However, the regular rotation of image orientation is often a helpful clue in determining the actual time interval between particular frames.

The following pages of maps and tabulated listings give descriptive information about the pictures obtained by TIROS VII. In the listings each picture sequence is described by one line, and for each station the sequences are listed in the order in which they appear on the film reel. The column headings and entries have the following meanings:

REEL: Number of the film reel which contains the sequence.

FILM LEGEND: This section gives the information actually appearing on the film in the panel board legend accompanying each picture. This information is used to identify the sequence on the film reel.

PASS: Orbital pass number on which the pictures were read out, as indicated in the upper right corner of the legend.

M: Mode of transmission indicated in the legend.

D = Direct

T = Tape

C: Camera number indicated in the legend.

1 = Camera number one

2 = Camera number two

S: CDA station which received the sequence.

W = Wallops Station, Va.

P = Point Mugu, (Pacific Missile Range), Calif.

F = Fairbanks, Alaska



Figure 1 - Example of TIROS VII Cloud Photography

PICTURE SEQUENCE DATA: This section documents the picture content. Sequences having no usable frames or unknown times are on the film reel and are therefore included in the listings, but are not fully documented in this section.

PASS: Orbital pass number on which the first picture of the sequence was taken. For direct sequences this pass number and the readout pass number given under FILM LEGEND are the same. For tape sequence, however, picture taking usually began on an earlier pass.

DATE: Month and day of the middle frame of the sequence.

TIME: Approximate time, in hours and minutes (GMT), of the midpoint in the sequence. This time is also given with the nephanalysis on the coverage map.

FRAME:

TI: Time interval, in seconds, between frames. V indicates time interval varies within the sequence.

US: Number of usable frames in the sequence.

+: Number of frames in which the central fiducial cross mark appears on the earth, indicating that the earth's image occupies a substantial portion of the picture.

GEOGRAPHICAL AREA COVERED: Column headings refer to numbered areas outlined on the first map. Column entries indicate the areas included in the picture sequence.

METEOROLOGICAL AND OTHER FEATURES:

EXTRATROPICAL CIRCULATIONS - TABLE (1)

0. CLOUD VORTEX (Well Defined)
1. CLOUD VORTEX (Poorly Defined)
2. CLOUD VORTEX (With Frontal Band or Other Associated Band(s))
3. CLOUD VORTEX (WITH DOUBLE CENTER)
4. CIRCULATION CENTER
- 5.
- 6.
- 7.
- 8.
9. CLOUD VORTEX (Unusual Appearance)

TROPICAL DISTURBANCES - TABLE (2)

0. Hurricane or TYPHOON (Named)
1. Tropical STORM (Named)
2. CLOUD VORTEX (Well Defined)
3. CLOUD VORTEX (Poorly Defined)
4. DISTURBED AREA (2° or less in extent)
5. DISTURBED AREA (2° to 4° in extent)
6. DISTURBED AREA (Over 4° in extent)
7. ASYMPTOTES OF CONVERGENCE
8. APPARENT ITC ZONE
- 9.

BANDS - TABLE (3)

0. PROBABLE FRONT (Well Defined)
1. PROBABLE FRONT (Poorly Defined)
2. APPARENT OCCLUDED FRONT
3. APPARENT STABLE OR OPEN WAVE
4. PROBABLE FRONT (With Cloud Vortex)
5. BAND, LOW LATITUDE (Within 15° of the Equator)
6. BAND, HIGH THIN CLOUDS (Possible Jet Association)
7. PRESUMED NON-FRONTAL
- 8.
9. BAND OF UNUSUAL APPEARANCE

CLOUD FEATURES - TABLE (5)

0. CUMULONIMBUS (No Apparent Organization)
1. CB's or other evidence of violent weather over the United States
2. CB's in apparent Squall Lines
3. EDDY PATTERNS
4. VORTICAL PATTERN IN A CELLULAR FIELD
5. MOUNTAIN WAVE CLOUDS
6. APPARENT GRAVITY WAVES (Not Obviously Associated with Terrain)
- 7.
- 8.
9. UNUSUAL CLOUD CONFIGURATION

CLOUD FEATURES - TABLE (4)

0. SOLID CELLS (Random)*
1. SOLID CELLS (Organized Pattern)*
2. HOLLOW POLYGONAL OR CRESCENT PATTERN*
3. VERMICULATED CLOUD PATTERN*
4. COASTAL STRATUS
5. INLAND STRATUS OR FOG (Including Penetrating Coastal Stratus)
6. CLOUD STREETS (Extratropical)
7. CLOUD STREETS (Tropical)
- 8.
- 9.

*0, 1, 2 and 3 refer to homogeneous cloud field greater than 3° of great circle arc in diameter.

MISCELLANEOUS - TABLE (6)

0. ICE OR SNOW (Glacial)
1. SNOW (Non-Mountainous)
2. SNOW (Mountain)
3. ICE ON SEAS
4. ICE ON LAKES OR RIVERS
5. SUN GLINT
6. HAZE OR SMOG
7. PROBABLE CONTRAILS
8. LANDMARK OF EXCEPTIONAL QUALITY
9. LANDMARK, DISCERNIBLE

Following the listings is a series of maps which shows the area covered by each sequence having usable frames and for which picture taking time has been determined. Most of the picture sequences were analyzed for their cloud content during routine operations, and these nephanalyses have been reproduced on the maps. Satellite attitude and exposure time are not always accurately known at the time the nephanalyses are constructed. However, most of the nephanalyses are considered to be geographically accurate to about $\pm 2^\circ$ with a few ranging from $\pm 1^\circ$ to $\pm 5^\circ$. Users are cautioned not to attribute any greater accuracy to the location of cloud patterns shown.

The symbols used in the nephanalyses are defined by the following legend:

	CUMULOFORM CLOUD		STRATIFORM CLOUD
	CIRROFORM CLOUD		APPARENT CUGG OR CB
	BOUNDARY OF MAJOR CLOUD SYSTEMS - FRONTS, VORTICES, OR OTHER SYSTEM DOMINATING THE SCENE VIEWED BY THE SATELLITE		
	DEFINITE BOUNDARY OF MORE OR LESS UNORGANIZED CLOUD MASSES		
	INDEFINITE BOUNDARIES OF MORE OR LESS UNORGANIZED CLOUD MASSES		
	STRIATIONS		
	STRIATIONS, TENUOUS		
	CLOUD LINES		
	CLOUD LINES, TENUOUS - CLOUD FORM DENOTED BY		
	DIRECTION OF SHEAR OF CIRRUS - FROM CB ANVIL OR OTHER SOURCE		
	WAVE CLOUDS (MOUNTAIN OR TRANSVERSE)		
	ESTIMATED LOCATION OF JET STREAM - SHAFT MAY BE BROKEN TO AVOID OBSCURING SYMBOLS INSIDE NEPH BOUNDARY		
VORTEX		HEAVY	
		THIN	

CLOUD AMOUNT

OPEN (O)	=	< 20% coverage
MOSTLY OPEN (MOP)	=	20-50% coverage
MOSTLY COVERED (MCO)	=	50-80% coverage
COVERED (C)	=	> 80% coverage

NOTE: STIPPLING WILL BE USED TO EMPHASIZE THE AREAS CONSIDERED BY THE ANALYST TO BE OF GREATEST SYNOPTIC SIGNIFICANCE.

When no nephanalysis was available for a usable sequence, a generalized outline of the area covered is shown instead.

The coverage swaths are grouped by PASS DAY, which includes all sequences taken on or near the series of 8 or 9 consecutive passes that come within range of the CDA stations each 24-hour period. These passes may fall on one or on two calendar days, and the maps are dated accordingly. Tape swaths are identified by the readout pass number, followed by the picture-taking pass number. Direct swaths are identified by a single pass number and the letter D. Midpoint time is given for all swaths, and camera number is added when necessary to identify definitely the sequence to which the swath applies. Two direct sequences acquired at the same station on the same pass are normally combined in one swath, since the short interruption for tape playback usually does not cause a significant gap in the coverage.

TIROS VII master films will be deposited at the National Weather Records Center (NWRC), Environmental Science Services Administration, Federal Building, Asheville, North Carolina. Persons or institutions desiring copies may order them from NWRC in the form

of 35 mm. positive transparencies for projection or 35 mm. duplication negatives from which opaque prints can be made. The pictures are stored chronologically on 100-foot reels. Orders must be placed for one or more complete reels, at a cost of \$6.50 each, as it is not now possible to furnish copies of individual frames or to provide enlargements or other picture formats. All copies will be furnished with sprocket holes, since the necessary film emulsion is available only in this form.

A complete listing of satellite latitude, longitude, and height for all usable sequences, together with other information useful in determining precise location of TIROS VII pictures, will be available on microfilm from NWRC. Detailed listings of picture-taking time for all frames are contained on the "TIROS VII FRAME LOGS" which are on file at the Documentation Section, National Weather Satellite Center, and will be made available on microfilm from NWRC.

Geographic locator grids, for overlay on the pictures, were computed at the CDA stations in the routine preparation of TIROS VII nephanalyses. Microfilm copies of these grids, which have latitude and longitude lines spaced at 5° intervals, are available from NWRC. The individual nephanalyses will also be available on microfilm.

Detailed descriptions of the problems and uncertainties encountered in geographically locating TIROS pictures are contained in References 1 and 2. Reference 4, on the other hand, describes a meticulous hand-rectification method which will produce excellent location information.

1. Hubert, L. F.: "TIROS I Camera Attitude Data, Analysis of Location Errors, and Derivation of Correction for Calibration", Meteorological Satellite Laboratory Report No. 5, U. S. Weather Bureau, Washington, D. C., 1961.
2. Pyle, R. L. : "Documentation for TIROS IV Television Data", Meteorological Satellite Laboratory Report No. 16, U. S. Weather Bureau, Washington, D. C., 1963.
3. : "Documentation for TIROS VII Television Data", now in preparation at National Weather Satellite Center, U. S. Weather Bureau, Washington, D. C., 1964.
4. Fujita, T. : "A Technique For Precise Analysis For Satellite Data; Volume I - Photogrammetry", Meteorological Satellite Laboratory Report No. 14, U. S. Weather Bureau, Washington, D. C., 1963.

REEL	FILM LEGEND				PICTURE				SEQUENCE				DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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					PASS	DATE	TIME			TI	US	+	01	2	3	4	5	6	7	8	9	TABLE (1)	TABLE (2)	TABLE (3)	TABLE (4)	TABLE (5)	TABLE (6)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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REEL	FILM LEGEND	PICTURE SEQUENCE DATA																		
		PICTURE TAKING						FRAME	GEOGRAPHICAL AREA COVERED	METEOROLOGICAL AND OTHER FEATURES										
		PASS	MIDPOINT		TI	US	+			EXTROP CIRC.	TROP DISTURB	BANDS	CLOUD FEATURES		MISCELLANEOUS					
			OATE	TIME									TABLE(1)	TABLE(2)		TABLE(3)	TABLE(4)	TABLE(5)	TABLE(6)	
PASS	M	C	S	PASS																
742A	5827	T	2	F	5826	0717	1237	30 32 32	4 7							0	456			
742A	5829	T	1	P	5827	0717	1413	30 32 32	4 78					48			67	01	9	
742A	5829	D	1	P	5829	0717	1732	30 06 06	5					0			67			
742A	5842	T	1	W	5840	0718	1119	30 32 32	4 7					8	00			0		
742A	5842	T	1	W	5841	0718	1257	30 32 32	4 7					58			54	01		
742A	5844	T	1	P	5842	0718	1438	30 32 32	4 8					48			67	01	9	
742A	5844	O	1	P	5844	0718	1751	30 06 06	5					1			1			
742A	5857	T	1	F	5855	0719	1144	30 32 32	2 4					8	1		147	2		
742A	5857	T	2	F	5856	0719	1319	30 32 32	2 4 78				0	85	1		57	4	9	
742A	5858	T	1	P	5857	0719	1455	30 32 32	4 78					48			67	01	29	
742A	5858	D	1	P	5858	0719	1635	30 06 06	5					6	1		17	0		
742A	5871	T	1	F	5869	0720	1026	30 31 31	4 67				4	8	0		67	06		
742A	5871	T	2	F	5870	0720	1203	30 32 32	4 78					48	0		67	01		
742A	5873	T	1	P	5871	0720	1339	30 32 32	4 78				2	45	0		67	01	8	
742A	5873	O	1	P	5873	0720	1656	30 06 06	5					1			017			
742A	5886	T	2	F	5885	0721	1225	30 25 25	4 7						1		5			
742A	5886	T	1	F	5884	0721	1047	30 32 32	2 4					8	0		7	0		
742A	5887	D	2	P	5887	0721	1533	30 07 07	5 7								450		9	
743A	5901	T	2	F	5900	0722	1259	30 31 31	2 8						1		3	0		
743A	5901	T	1	F	5899	0722	1108	30 32 32	2 4								4	0		
743A	5902	T	2	P	5901	0722	1425	30 32 32	1 5 7					58	5		67	1	9	
743A	5902	D	2	P	5902	0722	1559	30 08 08	5					1	7		10			
743A	5915	T	2	F	5914	0723	1133	30 32 32	2 4 78						01		67	012	9	
743A	5915	T	1	F	5913	0723	0955	30 31 31	2 4						1		6			
743A	5917	T	2	P	5915	0723	1310	30 32 32	4 78				4	64	6		67	20	9	
743A	5917	O	2	P	5917	0723	1621	30 10 10	5					1	7		12	2		
743A	5930	T	2	F	5927	0724	1157	30 32 32	2 4 78						0					
743A	5930	T	1	F	5928	0724	1019	30 32 32	2 4						07		67	06		
743A	5931	T	2	P	5930	0724	1333	30 31 31	1 4 78								47	0	8	
743A	5931	O	2	P	5931	0724	1504	30 07 07	5 7								5		9	
743A	5944	T	1	F	5942	0725	0903	30 32 32	2 4				2	8	7		016	0246		
743A	5944	T	2	F	5943	0725	1041	30 32 32	2 4					4	05		17	04	9	
743A	5946	T	2	P	5944	0725	1218	30 32 32	4 8								7	05	9	
743A	5946	O	2	P	5946	0725	1526	10 12 12	5					3						
743A	5959	T	2	W	5958	0726	1105	30 32 32	2 4 8									0		
743A	5960	T	2	P	5959	0726	1247	30 32 32	2 8				4		1			0	9	
743A	5970	T	1	P	5957	0726	0927	30 32 32	2 4						36	1	67	0		
743A	5973	T	2	W	5972	0727	0952	30 32 32	2 4							1				
743A	5973	T	1	W	5971	0727	0814	30 32 32	2 4 6						0		067	0		
744A	6101	T	2	P	6099	0805	0024	30 32 21	01					4		1	2			
744A	6105	T	2	F	6103	0805	0656	30 25 19	01		9			0		0	13	3		
744A	6113	T	2	W	6112	0805	2135	30 22 22	01					2		02	1			
744A	6128	T	2	W	6127	0806	2159	30 32 32	1							0	136	0		
744A	6144	T	2	W	6142	0807	2223	30 31 31	1					1		0	136	02		
744A	6147	T	1	F	6144	0808	0134	30 32 31	1 9					5	1	136	45			
744A	6147	T	2	F	6146	0808	0450	30 32 31	1 9				2	6	0247	06	02			
744A	6149	T	2	P	6147	0806	0627	30 32 32	1 9				34		6	06	0		9	
744A	6162	T	2	F	6159	0809	0156	30 32 32	1 9						0	036	045	9		
744A	6162	T	1	F	6161	0809	0511	30 32 32	1 9					6	9	3467	0	9		
744A	6164	T	2	F	6162	0809	0651	30 32 32	1 9					6	0	36	0	8		
744A	6177	T	1	F	6174	0810	0218	30 32 32	1 9				02		014	0136	0			
744A	6177	T	2	F	6176	0810	0533	30 32 32	1 9						01	035	0	389		
744A	6179	T	2	P	6177	0810	0710	30 32 32	01						1	2	0	9		
744A	6191	T	2	W	6190	0811	0418	30 32 32	1 9			4			17	012	0	9		
744A	6191	T	1	W	6188	0811	0104	30 32 32	1 5 9			4			8	07	012	0	9	
744A	6193	T	2	P	6191	0811	0557	30 32 32	1 9							17	76			
745A	6203	T	2	P	6200	0811	2038	30 30 30	1 45						5		01	0		
745A	6208	T	2	P	6205	0812	0446	30 31 31	1 5 9							6	7	0	9	
745A	6208	T	1	P	6204	0812	0308	30 32 32	1 5 9						8	0	27	0	9	
745A	6216	T	2	W	6214	0812	1921	30 32 32	2 4 8						6	0	03	0		
745A	6218	O	2	P	6218	0813	0027	30 01 01	5											
745A	6218	T	2	P	6216	0812	2239	30 32 32	1 5						8	1	267	0	9	
745A	6223	T	2	P	6219	0813	0332	30 31 31	1 5 9						7		7	0	9	
745A	6223	T	1	P	6220	0813	0538	30 32 32	1 5 9						6		7	05	9	
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745A	6238	T	2	P	6236	0814	0710	30 32 32	1 5						6	5		0	9	
745A	6238	T	1	P	6235	0814	0532	30 32 32	1 5 9						06		7	0	9	
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745A	6259	T	1	W	6257	0815	1717	30 32 32	4 8				1		68			0	9	
745A	6259	T	2	W	6254	0815	1222	30 3												

REEL	FILM LEGEND				PICTURE							SEQUENCE DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	PASS	M	C	S	PICTURE TAKING			FRAME	GEOGRAPHICAL	METEOROLOGICAL AND OTHER FEATURES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					PASS	MIDPOINT				AREA COVERED	EXTROP CIRC	TROP DISTURB	BANDS	CLOUD FEATURES		MISCELLANEOUS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
						DATE	TIME							TABLE (1)	TABLE (2)		TABLE (3)	TABLE (4)	TABLE (5)	TABLE (6)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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REEL	FILM LEGENO	PICTURE SEQUENCE DATA												
	PASS M C S	PICTURE TAKING			FRAME TI US +	GEOGRAPHICAL AREA COVERED	METEOROLOGICAL AND OTHER FEATURES							
		PASS	MIDPOINT				EXTROP CIRC.	TROP DISTURB	BANDS	CLOUD FEATURES		MISCEL- LANEOUS		
			DATE	TIME						TABLE (4)	TABLE (5)			
						01 2 3 4 5 6 7 8 9	TABLE (1)	TABLE (2)	TABLE (3)	TABLE (4)	TABLE (5)	TABLE (6)		
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750A	6468 T 1 W	6466	0829	1901	30 32 32	5 7		8	7	345	05	9		
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750A	6478 T 2 W	6471	0830	0438	30 32 32	1 3 6		6		7	0			
750A	6478 T 1 W	6477	0830	1254	30 32 32	4 8		5	0	7	0	9		
750A	6478 O 1 W	6478	0830	1432	30 05 05	4		1	0	1	0			
750A	6479 T 1 W	6478	0830	1606	30 31 31	1 5 7		8	01	0	0	9		
750A	6483 T 1 W	6481	0830	1922	30 32 32	5 7		8	67	37	0	9		
750A	6484 T 1 W	6484	0831	0014	30 32 32	1 3 5	24	6	0	0467	0	9		
750A	6493 O 1 W	6493	0831	1454	30 06 06	4 7		1	0	0	0			
750A	6493 T 1 W	6485	0831	0152	30 32 32	3 5		8	03	07	0			
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750A	6497 T 1 W	6496	0831	1943	30 25 25	5		8						
750A	6498 T 1 W	6498	0831	2258	30 32 32	5		67	1	0567	02			
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750A	6509 D 1 P	6509	0901	1650	30 05 05	5 7			7	1		29		
751A	6512 T 1 W	6511	0901	2004	30 31 31	5	4		0		0			
751A	6512 T 2 W	6512	0901	2142	30 32 32	5					0			
751A	6513 T 1 W	6513	0901	2319	30 32 32	5		0	1	0567	02	9		
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751A	6526 T 1 W	6525	0902	1848	30 32 32	5 7				7	0			
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751A	6551 D 2 W	6551	0904	1302	30 03 03	1 4 7				3	2			
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751A	6556 T 1 W	6554	0904	1754	30 31 31	5 7				35	0	2		
751A	6556 T 2 W	6556	0904	2109	30 29 29	5	0	0	06		0			
751A	6557 T 1 W	6557	0904	2248	30 32 32	3 5		5	1	17	0	9		
751A	6558 T 1 P	6558	0905	0025	30 32 32	1 3		0		7	0	9		
752A	6566 T 1 W	6564	0905	1010	30 32 32	34	2	67	12	0126	0			
752A	6566 O 1 W	6566	0905	1327	V 27 27	4 7				45	5	9		
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752A	6582 O 1 P	6582	0906	1521	10 17 17	5 7		3		24	0	9		
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752A	6585 T 1 W	6584	0906	1840	30 31 31	5 7	2		0	7	06			
752A	6586 T 2 W	6586	0906	2156	30 31 31	5	01	0	00	17	04			
752A	6595 O 1 W	6595	0907	1229	30 07 07	4 7		0		17		8		
752A	6595 T 1 W	6594	0907	1054	30 32 32	4	4	16		067	026			
752A	6597 D 1 P	6597	0907	1544	30 08 08	5 7				05		9		
752A	6597 T 1 P	6596	0907	1411	30 30 30	45 7	01	5	034	07	0	9		
752A	6599 T 1 W	6598	0907	1726	30 31 31	5 7				7	0	29		
752A	6600 T 1 W	6600	0907	2042	30 32 32	5	1		00	673	0			
752A	6610 O 2 W	6610	0908	1251	30 07 07	4 7				5	1			
752A	6610 T 2 W	6609	0908	1119	30 32 32	34	00	0	0	1	0			
753A	6614 D 2 W	6614	0908	1941	30 03 03	7			0					
753A	6614 T 2 W	6612	0908	1611	30 31 31	45 7				16		9		
753A	6617 O 2 P	6617	0909	0040	10 06 06	5		1						
753A	6617 T 2 P	6615	0908	2105	30 31 31	5 7	0		16	146		9		
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753A	6624 T 2 W	6623	0909	1005	30 31 31	34	14		0	016	036			
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753A	6626 D 2 P	6626	0909	1452	30 06 06	7				4	5	9		
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753A	6629 T 1 W	6628	0909	1824	30 32 32	4 7	4	1	07	02	0			
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753A	6639 T 2 W	6632	0910	0052	30 32 32		4		00		0			
753A	6641 T 2 P	6639	0910	1221	30 32 20	1 3				06		8		
753A	6644 O 1 W	6644	0910	2031	30 07 07	4		0		1	0			
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753A	6644 T 2 W	6642	0910	1706	30 31 31	4 67	4		0	6	0	8		
753A	6646 T 2 P	6646	0910	2335	30 32 32	3 5 7			7	026		9		
753A	6654 T 2 W	6651	0911	0749	30 32 32	3 5	1	6		1	05	9		
753A	6654 T 1 W	6648	0911	0252	30 31 31	3 5	0		06	347	0	9		
753A	6656 T 2 P	6654	0911	1239	30 32 32	34			0			8		
753A	6659 O 2 W	6659	0911	2052	30 08 08	4 7			0		01			
753A	6659 T 2 W	6658	0911	1907	30 32 32	4 7		0	0	067	0			

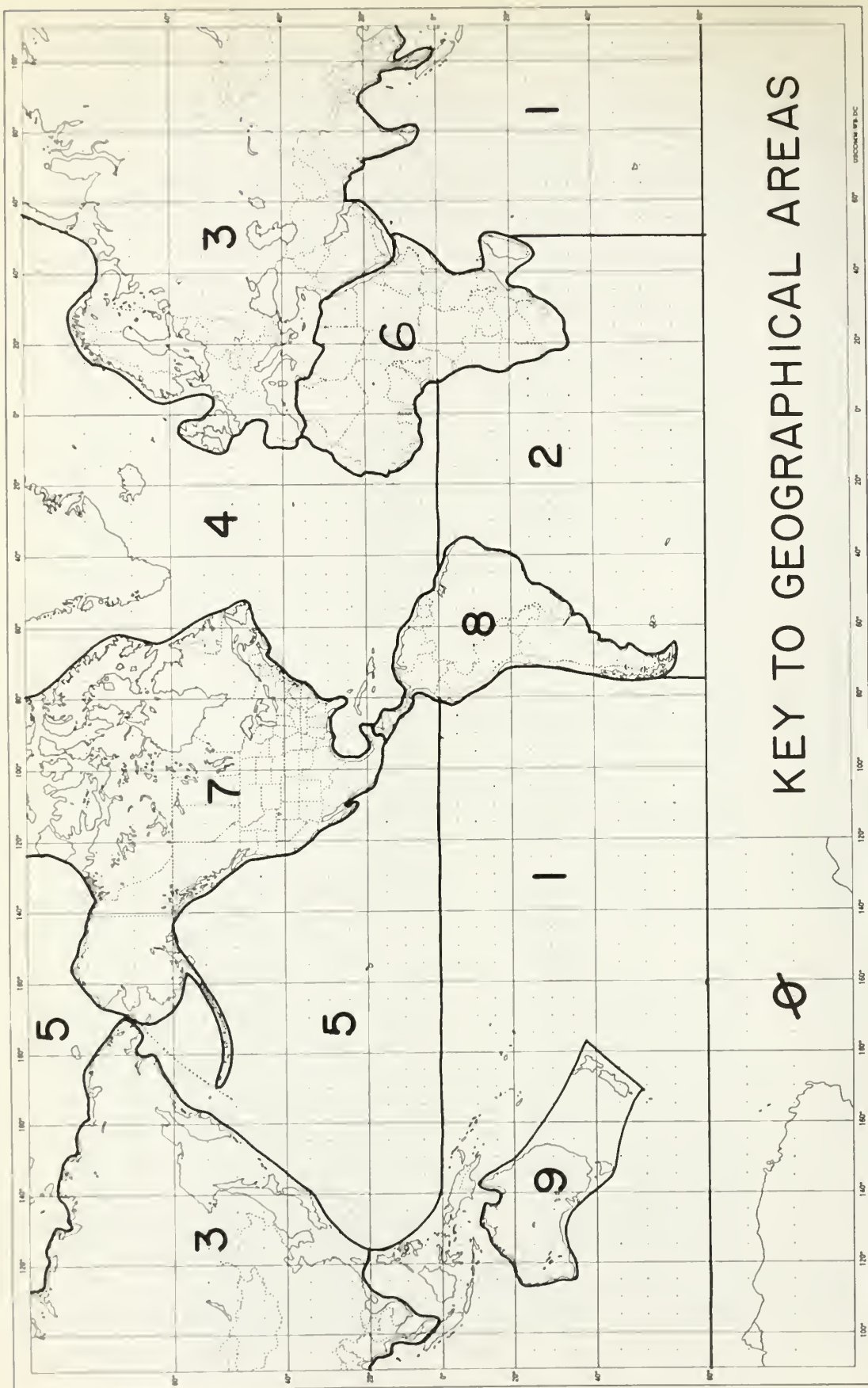
REEL	FILM LEGEND				PICTURE					SEQUENCE					DATA						
	PASS	M	C	S	PICTURE TAKING			FRAME	GEOGRAPHICAL	METEOROLOGICAL AND OTHER FEATURES											
					PASS	MIDPOINT				TI	US	+	AREA COVERED	EXTROP CIRC	TROP DISTURB	BANDS	CLOUD FEATURES		MISCEL- LANEOUS		
						DATE	TIME										TABLE(1)	TABLE(2)		TABLE(3)	TABLE(4)
754A	6661	T	1	P	6657	0911	1732	30 32 32	4 6 7	12				04	6			9			
754A	6661	T	2	P	6661	0911	2357	30 31 31	3 5 7	12				04	46			9			
754A	6668	T	2	W	6667	0912	0948	30 32 32	1 3					0			05	19			
754A	6668	T	1	W	6666	0912	0811	30 32 32	1 5 8					7	37		05	29			
754A	6670	T	2	P	6668	0912	1125	30 32 32	1 3					0	0			8			
754A	6673	T	2	W	6672	0912	1755	30 32 32	4 7				8	06	067		06				
754A	6673	O	1	W	6673	0912	1935	30 09 09	4				0	0			0				
754A	6675	T	2	P	6674	0912	2110	30 32 32	4 7 8				18	1	017		02	29			
754A	6675	T	1	P	6671	0912	1618	30 32 32	4 6	4			58	016	246		0	8			
754A	6675	O	1	P	6675	0912	2252	30 08 08	5 7				48		0		0	8			
754A	6683	T	2	W	6676	0913	0025	30 32 32	5	0			8	07	67		0				
754A	6683	T	1	W	6680	0913	0657	30 32 32	1 3 5				6		7		05	2			
754A	6685	T	2	P	6683	0913	1152	30 31 31	1 3	4			68	0	167		2	8			
754A	6688	T	2	F	6686	0913	1638	30 20 20	2 4 6				0		7						
754A	6688	O	2	F	6688	0913	1944	10 04 04	5 7	2			0								
754A	6690	T	1	P	6688	0913	1954	30 31 31	4 7	4			0	0	0267		0	8			
754A	6690	D	1	P	6690	0913	2313	30 10 10	5 7				8	7	2			8			
754A	6697	T	1	W	6695	0914	0719	30 31 31	1 3 5				1	06	37		0				
754A	6700	T	1	P	6697	0914	1035	30 32 32	1 3				68	5			0	8			
754A	6700	T	2	P				30 32 18													
754A	6703	O	2	W	6703	0914	2017	30 10 10	7						6		0	9			
755A	6704	T	2	P	6702	0914	1842	30 32 32	4 7				08	0	1267		2	8			
755A	6704	T	1	P	6701	0914	1704	30 31 31	4 6 7				8	0	7			8			
755A	6704	D	1	P	6704	0914	2155	30 08 08	5 7						0		0	8			
755A	6712	T	2	W	6705	0914	2339	30 27 27	1 5						67		0				
755A	6712	T	1	W	6709	0915	0604	30 31 31	1 3 5				4	06	7		025	8			
755A	6717	T	2	F	6712	0915	1053	30 31 31	1 3				8				0	8			
755A	6719	T	2	P	6717	0915	1901	30 32 32	4 7 8				0	1	70			8			
755A	6719	D	1	P	6719	0915	2218	30 06 06	5 7						27		0	9			
755A	6727	T	2	W	6722	0916	0307	30 32 32	3 5				8	0	067		04	9			
755A	6727	T	1	W	6724	0916	0622	30 32 32	3 5				6	7	67		02	28			
755A	6729	T	2	P	6727	0916	1120	30 32 32	1 3				58	6	0			8			
755A	6732	T	2	F	6730	0916	1608	30 32 32	2 4 6 7				8	0	7		0	9			
755A	6732	T	1	F	6731	0916	1756	30 27 22	2 4 8				8		73		026	9			
755A	6734	T	2	P	6732	0916	1922	30 32 32	4 7 8				8	6	067		0	9			
755A	6741	T	1	W	6737	0917	0327	30 32 32	3 5				8		067		0	9			
755A	6741	T	2	W	6739	0917	0657	30 15 09	1 9								0	8			
755A	6745	T	2	W	6741	0917	0959	30 32 32	1 3				6		067		02	9			
755A	6746	T	1	F	6745	0917	1619	30 32 32	4 5 7	2			0		4			9			
755A	6746	T	2	F	6745	0917	1638	30 23 20	2 4				8	2							
755A	6748	T	2	P	6746	0917	1802	30 32 32	4 7				08	6	7		0	9			
755A	6748	O	1	P	6748	0917	2121	30 08 08	5 7						04		0	8			
756A	6755	T	2	W	6751	0918	0213	30 32 32	3 5	1			8	7			06	9			
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756A	6761	T	1	F	6759	0918	1519	30 31 31	2 4 6 7	14			8	16	67		03	9			
756A	6763	T	2	P	6761	0918	1829	30 32 32	4 7 8				0		7		0	9			
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756A	6777	O	2	P	6777	0919	2026	30 06 06	5 7								0	8			
756A	6787	T	2	P	6785	0920	0928	30 32 32	1 3				8		07		0	9			
756A	6790	T	2	F	6789	0920	1600	30 07 07	2 4				48								
756A	6792	T	1	P	6788	0920	1417	30 31 31	4 6	0			8	0	167		0	58			
756A	6792	T	2	P	6790	0920	1732	30 32 32	4 7 8				0	016	7		02	9			
756A	6792	O	2	P	6792	0920	2049	30 08 08	5				8		14		0	9			
756A	6802	T	2	P	6799	0921	0814	30 32 32	1 3				8		017		0	9			
756A	6804	T	2	W	6803	0921	1438	30 32 32	2 4 7				8	06	1		0	9			
756A	6806	T	1	P	6804	0921	1620	30 31 31	4				5	9	7		0	9			
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757A	6880	T	2	P	6879	0926	1800														

REEL	FILM LEGEND	PICTURE										SEQUENCE										DATA					
	PASS	M	C	S	PICTURE TAKING			FRAME			GEOGRAPHICAL										METEOROLOGICAL AND OTHER FEATURES						
					PASS	MIOPOINT		TI	US	+	0	1	2	3	4	5	6	7	8	9	EXTROP CIRC.	TROP DISTURB.	BANDS	CLOUD FEATURES			MISCEL- LANEOUS
						DATE	TIME																	TABLE (1)	TABLE (2)	TABLE (3)	
761A	7230 T	2	P		7225	1020	0427	30	32	32	1											0		016			
761A	7237 T	2	W		7236	1020	2220	30	32	32	1											1		067		0	
761A	7239 T	2	P		7238	1021	0137	30	32	32	1	5						0		8		15		7		9	
762A	7252 T	2	W		7250	1021	2106	30	32	32	1	5	8					4				07		0124	4	9	
762A	7258 T	2	F		7256	1022	0653	30	32	32	1	5							8			1		045	0	8	
762A	7266 T	2	W		7265	1022	2130	30	32	32	1	45	78									7		024	0	9	
762A	7268 T	2	P		7267	1023	0045	30	29	29	1	5						1		8		1		7		03	
762A	7271 T	2	F		7268	1023	0222	30	32	32	1	5	9					1		8		07		0	059	9	
762A	7273 T	2	F		7271	1023	0714	30	32	32	1	5	9					1		8		17		6	026	8	
762A	7281 T	2	W		7279	1023	2105	30	32	32	1	4	8									0		04	0	9	
762A	7282 T	2	W		7281	1023	2329	30	32	32	1	5	7						8			7		07	0	9	
762A	7283 T	2	P		7282	1024	0108	30	31	31	1	5										0		17	0		
762A	7287 T	2	F		7285	1024	0559	30	32	32	1	5	9						68			0		056	0	8	
762A	7295 T	2	W		7294	1024	2037	30	32	32	1	45	8											24	0		
762A	7296 T	2	W		7295	1024	2215	30	32	32	1	45	7											01	0	9	
762A	7297 T	2	P		7296	1024	2352	30	28	28	1	5						0		8		0		07	0		
762A	7302 T	2	F		7297	1025	0130	30	32	32	1	5						2		68		07		167			
762A	7310 T	2	W		7308	1025	1921	30	32	32	1	4	8					4		78				1467	02	8	
762A	7310 O	2	W		7310	1025	1212	10	00	00																	
762A	7311 T	2	W		7310	1025	2238	30	31	31	1	5	7						8			7			0	9	
762A	7312 T	2	P		7311	1026	0015	30	32	32	1	5							8			01		67	09		
763A	7314 T	2	F		7312	1026	0153	30	32	32	1	5							8			01		6	0	7	
763A	7316 T	2	F		7314	1026	0507	30	32	32	1	5	9						8			1		04	0	9	
763A	7325 T	2	W		7323	1026	1945	30	32	32	1	4	8											04	0	9	
763A	7326 T	2	P		7325	1026	2300	30	32	32	1	5							8			0		67	0	9	
763A	7327 T	2	P		7326	1027	0038	30	32	32	1	5							8			0		67	0		
763A	7329 T	2	F		7327	1027	0215	30	32	32	1	5							68			01		07	0		
763A	7332 T	2	P		7329	1027	0530	30	32	32	1	5	9											7	0	9	
763A	7339 O 1	W			7339	1026	2014	30	01	01		4	7														
763A	7339 T	2	W		7338	1027	2007	30	30	30	1	4	8									0		04	0	9	
763A	7340 T	2	W		7339	1027	2144	30	31	31	1	45	7						78					0167	029	9	
763A	7342 T	2	P		7340	1027	2321	30	32	32	1	5	7						58			0		067	0	8	
763A	7344 T	2	F		7343	1028	0414	30	32	32	1	5	9						86					017	0	9	
763A	7347 T	2	P		7344	1028	0555	30	32	32	1	5	9						05					7	0	8	
763A	7354 O	2	W		7354	1028	2036	30	04	04												0			1		
763A	7354 T	2	W		7352	1028	1851	30	32	32	1	4	8											17	0		
763A	7355 T	2	W		7354	1028	2203	30	23	23	1	5	7						78					0167	02	9	
763A	7358 T	2	F		7355	1028	2344	30	32	32	1	5							3			014		07	0		
763A	7359 T	2	F		7358	1029	0436	30	32	32	1	5	9						8					16	0	8	
764A	7361 T	2	P		7359	1029		30	03	03	1	5															
764A	7369 O	2	W		7369	1029	2058	30	02	02		4	7									1			0		
764A	7369 T	2	W		7367	1029	1911	30	32	32	1	4	8						58			0		07	0	9	
764A	7374 T	2	F		7373	1030	0457	30	32	32	1	5										16		06	02	8	
764A	7376 T	2	P		7374	1030	0635	30	32	32	1	3	5						58			1		07	0	9	
764A	7383 O	2	W		7383	1030	1940	30	02	02		4							4						0		
764A	7383 T	2	W		7381	1030	1757	30	32	32	1	4	8									8		1	0	0	9
764A	7385 O	2	P		7385	1030	2254	30	02	02		5												01		9	
764A	7385 T	2	P		7383	1030	2113	30	32	32	1	5	7						8					7	0	9	
764A	7388 T	2	F		7386	1031	0036	30	18	18		5										0		0	0		
764A	7389 T	2	F		7388	1031	0518	30	32	32	1	5							6			01		067	024	9	
764A	7398 O	2	W		7398	1031	2002	30	01	01		4														9	
764A	7398 T	2	W		7396	1031	1819	30	32	32	1	4	8									4		07	0	9	
764A	7400 O	2	P		7400	1031	2317	30	02	02		5										0		45		9	
764A	7400 T	2	P		7398	1031	2134	30	31	31	1	5	7						8			0		07	0	59	
764A	7403 T	2	F		7400	1101	0049	30	32	32	1	5							68			02		067	02	9	
764A	7405 T	2	P		7403	1101	0541	30	32	32	1	3	5						58			0		067	0	8	
764A	7412 O	2	W		7412	1101	1844	30	02	02		4										1					
764A	7412 T	2	W		7410	1101	1703	30	32	32		4	8											67	0		
764A	7414 O	2	P		7414	1101	2158	30	02	02		5										07		46		9	
764A	7414 T	2	P		7412	1101	2019	30	32	32	1	45	7						5			0		7	09	9	
764A	7416 T	2	F		7414	1101	2334	30	32	32	1	5	7						8			1		367	0		
764A	7417 T	2	F		7416	1102	0248	30	32	32	1	5							6			1		0670	02	59	
765A	7418 T	2	F		7417	1102	0426	30	32	32	1	5							6								

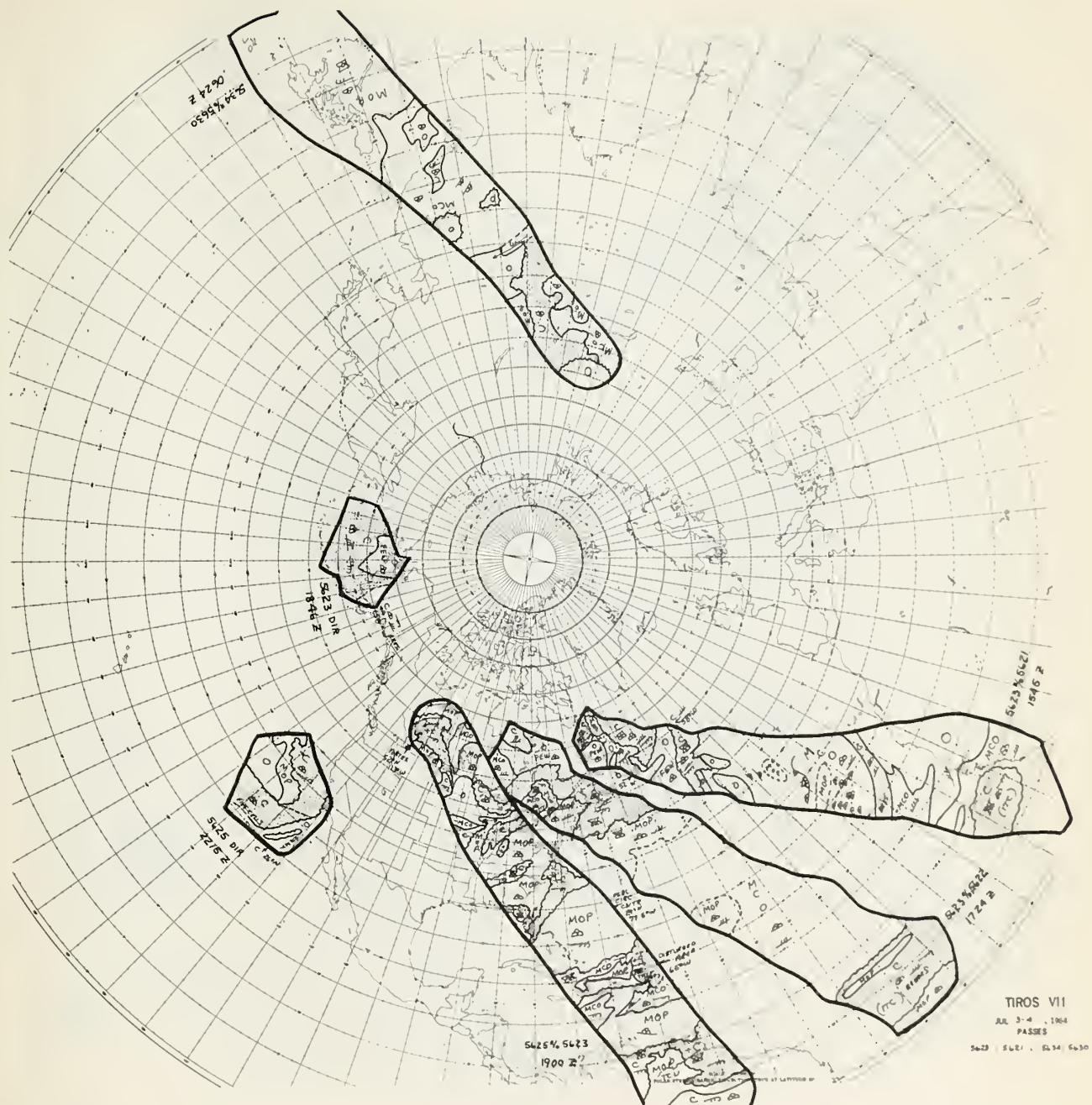
REEL	FILM LEGENO	PICTURE SEQUENCE DATA													
	PASS M C S	PICTURE TAKING			FRAME TI US +	GEOGRAPHICAL AREA COVERED 01 2 3 4 5 6 7 8 9	METEOROLOGICAL AND OTHER FEATURES								
		PASS	MIOPOINT				EXTROP CIRC.	TROP DISTURB	BANDS	CLOUD FEATURES		MISC- LANEQUOUS			
			DATE	TIME						TABLE (1)	TABLE (2)		TABLE (3)	TABLE (4)	TABLE (5)
765A	7470 T 2 W	7468	1105	1515	30 23 23	4 8		8		67	0	9			
765A	7472 T 2 W	7471	1105	1836	30 22 22	4 7			0	0	0	9			
765A	7475 T 2 F	7472	1105	2145	30 32 32	1 5 7	2	68	476	467	05	9			
766A	7477 T 2 F	7475	1106	0237	30 32 32	1 5		8	1	07	05	9			
766A	7477 T 1 F	7476	1106	0414	30 32 32	1 3 5		2568	07	023		9			
766A	7485 T 2 W	7483	1106	1536	30 31 31	4 8			06	67	0	9			
766A	7490 T 2 F	7485	1106	1851	30 21 23	1 5 7		5	7	17	0	9			
766A	7492 T 2 P	7490	1107	0259	30 32 32	1 5		58	6	0	0	59			
766A	7492 T 1 P	7491	1107	0435	30 32 32	1 3		8	01		0	8			
766A	7500 O 2 W	7500	1107	1736	30 04 04	4 7						9			
766A	7500 T 2 W	7498	1107	1556	30 32 32	1 4 8	4	8		067	0	9			
766A	7502 T 2 P	7500	1107	1912	30 32 32	1 5 7		8		7	8	9			
766A	7502 O 2 P	7502	1107	2051	30 01 01	5	1					9			
766A	7504 T 2 F	7503	1107	2228	30 31 31	5 7		48	01	025	0	29			
766A	7507 T 2 P	7504	1108	0142	30 32 32	5		8	01	067	0	9			
766A	7507 T 1 P	7505	1108	0319	30 32 32	1 3 5		8	1	0	03	9			
766A	7514 O 2 W	7514	1108	1619	30 04 04	4				01					
766A	7514 T 2 W	7512	1108	1440	30 32 32	4 8		8	0	067	0	9			
766A	7516 O 2 P	7516	1108	1934	30 03 03	5			7						
766A	7516 T 2 P	7514	1108	1756	30 32 32	5 7	4	8		567	0	8			
766A	7519 T 1 F	7518	1108	2248	30 32 32	5		8	0	236	0	5			
766A	7519 T 2 F	7517	1108	2111	30 29 29	5 7		8	7	5		29			
766A	7522 T 2 P	7519	1109	0146	30 32 24	1	9	2	0	06	03	8			
766A	7529 O 2 W	7529	1109	1641	30 03 03	4 7				4	0	9			
766A	7529 T 2 W	7528	1109	1501	30 32 32	1 4 8	2		0	067	04	9			
767A	7531 O 2 P	7531	1109	1955	30 02 02	5			1						
767A	7531 T 2 P	7529	1109	1818	30 31 31	5 7		8	3	7	0	9			
767A	7534 T 2 F	7532	1109	2132	30 32 32	5 7		8	0	236	0				
767A	7536 T 2 P	7534	1110	0224	30 32 32	1 3 5	2	8	0	07	0	9			
767A	7543 T 2 W	7542	1110	1346	30 32 32	4 8	4	3	03	017	0				
767A	7545 T 2 P	7543	1110	1701	30 32 32	5 7		8	0	07	0	8			
767A	7548 T 2 F	7545	1110	2015	30 32 32	5 7		68	1	036	0				
767A	7551 T 2 P	7548	1111	0108	30 32 32	1 5	2	8	4	2	0	9			
767A	7551 T 1 P	7550	1111	0247	30 32 32	1 3		58	03	06	0	9			
767A	7558 O 2 W	7558	1111	1545	30 01 01	4			7			9			
767A	7558 T 2 W	7556	1111	1407	30 32 32	4 8	1		013	1367	025	8			
767A	7560 O 2 P	7560	1111	1859	30 02 02	5			1						
767A	7560 T 2 P	7559	1111	1722	30 31 31	45 7		8	06	067	0	8			
767A	7562 T 2 W	7560	1111	2036	30 32 32	1 5 7		8	7	367	0				
767A	7564 T 1 F	7564	1112	0129	30 32 32	1 3 5		84	02	045	0	128			
767A	7565 T 2 F	7563	1111	2352	30 32 32	5	12	8	041	016	0				
767A	7573 O 2 W	7573	1112	1607	30 02 02	4 7				5					
767A	7573 T 2 W	7571	1112	1428	30 32 32	4 8	2	78	0	0136	09	9			
767A	7575 O 2 P	7575	1112	1922	30 03 03	5			1	16					
767A	7575 T 2 P	7574	1112	1744	30 32 32	5 7		8	01	1267	0	8			
767A	7580 T 2 P	7579	1113	0152	30 32 32	1 3 5	04	15		26	0	9			
768A	7587 O 2 W	7587	1113	1450	30 03 03	4			7		0				
768A	7587 T 2 W	7586	1113	0458	30 32 32	123 6		67		67	0	9			
768A	7589 O 2 P	7589	1113	1804	30 03 03	5			1	1					
768A	7589 T 2 P	7588	1113	1626	30 31 31	5 7		8			0	9			
768A	7592 T 2 F	7590	1113	2119	30 31 31	5		8	0	3267	02				
768A	7594 T 2 F	7593	1114	0033	30 32 32	5			096	0136	0	9			
768A	7595 T 2 P	7594	1114	0342	30 32 32	1 3			0	7	0	9			
768A	7602 T 2 W	7600	1114	1332	30 32 32	4 8			0	7	0	9			
768A	7602 O 2 W	7602	1114	1515	10 21 21	4 7			0	56	9	9			
768A	7604 O 2 P	7604	1114	1826	30 03 03	5				0					
768A	7604 T 2 P	7603	1114	1646	30 32 32	5 7		8	06			9			
768A	7606 T 2 W	7605	1114	2001	30 32 32	5 7		8	0	067	0	9			
768A	7609 T 2 P	7606	1114	2317	30 32 32	5		86	1	0167	0	39			
768A	7609 T 1 P	7608	1115	0055	30 31 31	1 3 5	1	18	1	047	0	9			
768A	7616 O 2 W	7616	1115	1355	30 04 04	4					0				
768A	7616 T 2 W	7615	1115	1216	30 32 32	4 8		6	0	7	02				
768A	7616 O 2 W	7616	1115	1358	V 02 02	4	1								
768A	7618 O 2 P	7618	1115	1707	30 02 02	5			0	01					
768A	7621 T 2 F	7619	1115	1847	30 25 25	5 7		5	07	2156	0	128			
768A	7624 T 2 P	7622	1115	2340	30 32 32	3 5	14	08	0	167	03	923			
768A	7624 T 1 P	7623	1116	0117	30 32 32	1 3		08	1	167	0	923			
768A	7631 O 2 W	7631	1116	1415	10 01 01	4 7						9			
768A	7631 T 2 W	7624	1116	0424	30 32 32	1 3 6		8		0	0				
768A	7633 O 2 P	7633	1116	1730	30 03 03	5				016					
768A	7633 T 2 P	7632	1116	1555	30 31 31	5 7		8	06		01	29			
769A	7635 T 2 W	7634	1116	1908	30 31 31	1 5 7		8	0	04	0	28			
769A	7636 T 2 W	7636	1116	2222	30 32 32	5 7	0	8	0	06	0				
769A	7638 T 2 F	7637	1116	0001	30 32 32	1 5		6		06	04	19			
769A	7646 O 2 W	7646	1117	1440	30 10 10	7					5				
769A	7646 T 2 W	7638	1117	0319	30 32 32	3			7		6	9			
769A	7648 O 2 P	7648	1117	1753	30 07 07	5				01		9			
769A	7648 T 2 P	7647	1117	1614	30 31 31	5 7	4	8	06	7	05	19			
769A	7650 T 2 W	7649	1117	1928	30 31 31	5 7		8	0	67	0	9			
769A	7653 T 2 P	7652	1118	0021	30 32 32	1 3 5		8	1	07	0	129			
769A	7660 O 2 W	7660	1118	1322	30 05 05	4			6						

REEL	FILM LEGENO	PICTURE SEQUENCE DATA													
	PASS M C S	PICTURE TAKING			FRAME TI US +	GEOGRAPHICAL AREA COVERED	METEOROLOGICAL AND OTHER FEATURES								
		PASS	MIDPOINT				EXTROP CIRC	TROP DISTURB	BANDS	CLOUD FEATURES		MISCEL- LANEOUS			
			DATE	TIME						TABLE (1)	TABLE (2)		TABLE (3)	TABLE (4)	TABLE (5)
769A	7660 T 2 W	7653	1118	0335	30 32 32	1 3				8	7	0	0		9
769A	7662 O 2 P	7662	1118	1635	30 10 10		5 7				7	6			29
769A	7667 O 2 F	7667	1119	0058	10 02 02		5 7								
769A	7667 T 2 F	7666	1118	2305	30 31 31	1 3 5			1	058	16	36	03		9
769A	7668 T 2 P	7668	1119	0239	30 06 06		3								92
769A	7675 O 2 W	7675	1119	1342	30 03 03		4 7					6	0		
769A	7675 T 2 W	7673	1119	1037	30 32 32		4			8	0	67	0		
769A	7677 O 2 P	7677	1119	1656	30 04 04		5			8			0		
769A	7679 T 2 W	7678	1119	1836	30 31 31		5 7		4	8	03	24	046		2
769A	7680 T 2 W	7680	1119	2152	30 32 32		5 7			8	1	7	0		8
769A	7681 T 2 P	7681	1119	2330	30 32 32	1 3 5			2		18	027	0		29
769A	7689 O 2 W	7689	1120	1225	30 03 03		4						0		
769A	7689 T 2 W	7683	1120	0243	30 12 12	1 3							0		2
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770A	7691 O 2 P	7691	1120	1543	30 06 06		5 7								129
770A	7692 O 2 P	7692	1120	1724	30 04 04		5 7					05			29
770A	7704 T 2 W	7703	1121	1118	30 32 32		34				0	014	5		2
770A	7734 O 2 W	7734	1123	1333	V 00 03		7								
770A	7753 O 2 W	7753	1124	2044	30 03 03		7								
770A	7767 O 2 W	7767	1125	1925	30 02 02		7								
770A	7768 O 2 W	7768	1125	2107	30 07 07		7		0		0		0		
770A	7782 O 2 W	7782	1126	1948	30 03 03		7				6		6		
770A	7784 O 2 P	7784	1126	2304	10 06 06		5 7		4			2			9
770A	7792 T 2 W	7789	1127	0715	30 31 31		3 5			6	1	07	05		29
770A	7794 T 2 P	7792	1127	1221	30 08 04	1						7			
770A	7797 T 1 W	7796	1127		30 12 12										
770A	7797 O 1 W	7797	1127	2015	30 06 06		4				1	3	0		
770A	7799 T 2 P	7798	1127	2154	30 30 30		4 78			5	01	6	05		19
770A	7799 O 2 P	7799	1127	2332	30 05 05		5				6	02			9
770A	7806 T 2 W	7798	1127	2147	30 02 02										
770A	7808 T 2 P	7806	1127	1052	30 31 31	1 3				8		7	0		129
770A	7811 O 2 W	7811	1128	1900	V 05 05		4			6		7	0		
770A	7813 T 2 P	7812	1128	2035	30 31 31		4 78					67	1		19
770A	7813 O 2 P	7813	1128	2214	30 07 07		5 7			5	6				9
770A	7822 T 2 P	7818	1129	0621	30 31 31		3 5			8	1	07	0		129
770A	7825 T 2 W	7824	1129	1604	30 32 32		2 4 6				7	7	0		8
770A	7826 T 2 W	7825	1129	1743	30 32 32		2 4 7			8		067	0		
770A	7827 T 2 F	7826	1129	1926	30 32 32		4 8			6	19	067	0		
771A	7828 T 2 P	7827	1129	2058	30 32 32		4 78			36	1	67	0		19
771A	7828 O 2 P	7828	1129	2235	30 10 10		5 7			8	65	05	2		79
771A	7836 T 2 W	7833	1130	0642	30 32 32	1 3 5 9				68		57	0		129
771A	7838 T 2 P	7836	1130	1138	30 32 32	1 3				58		7	0		8
771A	7840 T 2 W	7839	1130	1629	30 32 32		2 4 6		4	8	7	01	04		9
771A	7840 O 2 W	7840	1130	1759	10 09 09		4				06		5		
771A	7841 T 2 W	7840	1130	1808	30 31 31		2 4 8			8	07	0	0		9
771A	7841 O 2 W	7841	1130	1941	30 05 05		4 7				0		0		9
771A	7843 T 2 P	7842	1130	2120	30 31 31		5 7			78	75	07	0		9
771A	7850 T 2 W	7848	1201	0707	30 32 32	1 3		9		7		5	0		9
771A	7851 T 2 W	7850	1201	1021	30 31 31	1 3				6		07	0		29
771A	7854 T 2 W	7853	1201	1511	30 32 32		2 4 6			8		01	03		8
771A	7855 T 2 W	7854	1201	1655	30 32 32		2 4			58		0	0		5
771A	7857 T 1 P	7856	1201	2013	30 32 26			8		8			0		9
771A	7857 T 2 P	7855	1201	1832	30 31 31		2 4 8			4	0	17	0		9
771A	7857 O 2 P	7857	1201	2140	30 07 07		5 7				6	16	3		9
771A	7865 T 2 W	7864	1202	0921	30 04 04										
771A	7867 T 2 P	7865	1202	1045	30 31 31	1 3				8	0	7	0		8
771A	7869 T 2 W	7868	1202	1531	30 32 32		2 4 67			8	0	01	0		9
771A	7870 T 2 W	7869	1202	1718	30 32 32			8		8		0	0		9
772A	7872 T 1 P	7871	1202	2025	30 32 32		45 7			8		7	0		912
772A	7872 T 2 P	7870	1202	1855	30 32 30		2 4 8			8		7	0		
772A	7872 O 2 P	7872	1202	2202	30 05 05		5				7				7
772A	7880 T 2 W	7877	1203	0621	30 22 14			9					0		9
772A	7883 T 2 W	7882	1203	1415	30 32 32		2 4 6				7	07	0		8
772A	7884 T 2 W	7883	1203	1558	30 32 32		2 4			8	7	0167	0		
772A	7886 T 1 P	7885	1203	1908	30 32 32		4 78			8		07	0		19
772A	7886 T 2 P	7884	1203	1735	30 32 32		2 4 8		4			07	0		9
772A	7886 O 2 P	7886	1203	2044	30 08 08		5 7				1		6		85
772A	7896 T 2 P	7891	1204	0455	30 31 31	1 3 5				48	0	07	0		29
772A	7898 T 2 W	7897	1204	1436	30 32 32		2 4 6		4		16	01	04		9
772A	7899 T 2 W	7898	1204	1617	30 32 32		2 4			8		7	0		
772A	7901 T 1 P	7900	1204	1928	30 32 32		4 78			8	016	07	0		1259
772A	7901 T 2 P	7899	1204	1757	30 32 32		2 4 8			8	1	07	0		59
772A	7901 O 2 P	7901	1204	2107	30 08 08		5				1	2			
772A	7911 T 2 P	7906	1205	0528	30 27 22	1		9		2	1	6			9
772A	7913 T 2 W	7912	1205	1457	30 32 32		4 7				9	7	06		9
772A	7915 T 1 F	7914	1205	1811	30 32 32		45 78			8	1	57	02		1259
772A	7915 T 2 F	1913	1205	1644	30 32 31		2 4 8			5	0	37	0		9
772A	7916 O 2 P	7916	1205	2125	30 03 03		5				1	6			
772A	7916 T 2 P	7915	1205	1948	30 32 32	1	5 7			8	16	7	0		258
773A	7925 T 2 P	7922	1206	0715	30 31 31	1 3				58	6	7	2		28
773A	7927 T 2 W	7926	1206	1339	30 32 32		2 4 6				71	76	0		8

REEL	FILM LEGEND	PICTURE SEQUENCE DATA													
	PASS M C S	PICTURE TAKING			FRAME TI US +	GEOGRAPHICAL AREA COVERED 01 2 3 4 5 6 7 8 9	METEOROLOGICAL AND OTHER FEATURES								
		PASS	MIPOINT				EXTROP CIRC	TROP DISTURB	BANDS	CLOUD FEATURES		MISCEL- LANEOUS			
			DATE	TIME						TABLE (1)	TABLE (2)		TABLE (3)	TABLE (4)	TABLE (5)
773A	7928 T 2 W	7927	1206	1523	30 32 32	2 4		67	0	067	02				
773A	7930 T 1 P	7929	1206	1832	30 32 32	1 5 7		8		07	0	1258			
773A	7930 T 2 P	7928	1206	1702	30 32 32	2 4 8		8	7	07	0	95			
773A	7930 D 2 P	7930	1206	2010	30 06 06	5						9			
773A	7940 T 2 P	7935	1207	0422	30 31 31	1 3 9		68	16	456	20	9			
773A	7942 T 2 W	7941	1207	1402	30 32 32	2 4	1	8	0	07	0	9			
773A	7943 T 2 W	7942	1207	1540	30 32 32	2 4 78		78	1	07	02	9			
773A	7945 O 2 P	7945	1207	2027	30 04 04	5									
773A	7945 T 2 P	7943	1207	1723	30 32 32	4 8		8		7	0	9			
773A	7945 T 1 P	7944	1207	1855	30 31 31	1 5 7		8	6	7	0	59			
773A	7954 T 2 P	7950	1208	0445	30 32 32	1 3 9		58			0	59			
773A	7956 T 2 W	7955	1208	1246	30 32 32	2 4 6		8		069	23	9			
773A	7957 T 2 W	7956	1208	1421	30 32 32	2 4	8		0	7	0				
773A	7957 O 1 W	7957	1208	1558	30 08 08	4			0	6	0				
773A	7959 T 2 P	7958	1208	1738	30 32 32	4 78		58	6		01	259			
773A	7959 O 1 P	7959	1208	1915	30 07 07	5 7		5	6		0	8			
773A	7969 T 2 P	7964	1209	0332	30 32 28	1 5 9		8	15	7	2	59			
773A	7971 T 2 W	7970	1209	1306	30 32 32	2 4 6		8	16	7	0	9			
774A	7972 T 2 W	7971	1209	1445	30 32 32	2 4 8		8	1	7	0	9			
774A	7972 O 2 W	7972	1209	1618	V 11 11	4 7									
774A	7974 T 2 P	7973	1209	1800	30 32 32	1 5 78			6		01	5128			
774A	7984 T 2 P	7979	1210	0354	30 12 11	9									
774A	7998 T 1 P	7986	1210	1509	30 31 31	2 4 8		8	0	1267	0	9			
774A	7998 T 2 P	7987	1210	1647	30 31 31	34 8					0	9			
774A	8000 T 2 W	7999	1211	1213	30 32 32	2 4 6		8			0	8			
774A	8003 T 2 P	8002	1211	1705	30 32 32	1 5 78		4	06	47	05	259			
774A	8003 T 1 P	8001	1211	1530	30 31 31	4 78			9	7	0	59			
774A	8013 T 2 P	8010	1212	0622	30 00 00	1									
774A	8015 T 2 W	8014	1212	1234	30 32 32	2 4		8	06	1	0				
774A	8018 T 2 P	8017	1212	1727	30 32 32	1 5 7		58		04	0	59			
774A	8018 T 1 P	8016	1212	1550	30 32 32	4 78		5	06		10	59			
774A	8027 T 2 P	8023	1213	0317	30 32 32	1 3 9				7		9			
774A	8032 T 2 P	8028	1213	1120	30 32 32	2 4 6		8	065	02	025	8			
774A	8042 T 2 P	8037	1214	0157	30 32 32	1 3 5 9		05		7	0	9			
774A	8045 T 2 W	8043	1214	1140	30 32 32	2 4 6		8	7			9			
774A	8045 O 1 W	8045	1214	1452	15 02 02	4									
774A	8047 T 2 P	8045	1214	1459	30 31 31	2 4 8		8	15	67	0	59			
774A	8047 T 1 P	8045	1214	1459	30 31 31	2 4 8		8	15	67	0	95			
775A	8057 T 2 P	8052	1215	0232	30 00 00										
775A	8059 T 2 W	8058	1215	1201	30 32 32	2 4	4	8		0	0				
775A	8059 O 1 W	8059	1215	1333	V 09 09	4			06	2					
775A	8062 T 1 P	8061	1215	1703	30 32 19	1				014		29			
775A	8062 T 2 P	8060	1215	1520	30 32 32			5	1	0	0	9			
775A	8073 T 2 F	8066	1216	0106	30 32 32	1 5 9		1		05	0	58			
775A	8088 T 2 W	8081	1217	0124	30 32 32	1 3 5 9		8		07	0	9			
775A	8088 O 2 W	8088	1217	1234	10 02 02										
775A	8089 T 2 F	8088	1217	1246	30 31 31	2 4 8		86		067	02	9			
775A	8091 T 2 P	8089	1217	1435	30 32 28	2 8	2		0	61	02	9			
775A	8100 T 2 P	8096	1218	0144	30 29 29	1 3 9		5		7	0	59			
775A	8103 T 2 W	8102	1218	1129	30 32 32	2 4		8		06	0				
775A	8105 T 2 P	8104	1218	1450	30 20 32	1 8				04		29			
775A	8115 T 2 P	8107	1218	1938	30 32 32	1 5			0	167	0	59			
775A	8117 T 2 W	8116	1219	1014	30 32 32	2 4		8	1	07	0				
775A	8119 T 2 P	8118	1219	1333	30 32 32	2 4 8		48		67	0	9			
775A	8127 T 1 W				30 32 32				1						
775A	8130 T 2 P	8126	1220	0230	30 32 32	1 3 9	4	58	4	167	0	8			
776A	8133 T 2 F	8131	1220	1037	30 32 32	2 4				016	0				
776A	8135 T 2 P	8133	1220	1353	30 32 32	2 4 8		8		47	0	9			
776A	8144 T 2 P	8139	1220	2337	30 32 32	1 5 9		8	0	1457	0	9			
776A	8147 T 2 F	8146	1221	1100	30 32 32	2 4		8	06	0126		9			
776A	8149 T 2 P	8148	1221	1414	30 32 32	1 5 8		8		047	0	29			
776A	8159 T 2 P	8154	1221	2359	30 32 32	1 9		55	169	7	0	9			
776A	8162 T 2 F	8161	1222	1123	30 32 32	2 4 8		8	0	57	0	8			
776A	8164 T 2 P	8163	1222	1438	30 30 30	1 5 8		8		037	0	9			
776A	8173 T 2 P	8166	1222	1930	30 28 28	1 5	4	57	157	7	2				
776A	8176 T 2 F	8175	1223	1007	30 32 32	2 4 8		8	0	037	02				
776A	8178 T 2 P	8177	1223	1323	30 29 29	2 8	2		01			8			
776A	8188 T 2 P	8183	1223	2322	30 06 00	01									
776A	8191 T 2 W	8190	1224	1029	30 32 32	2 4 8	2	78	1	0237	0	9			
776A	8193 T 2 P	8192	1224	1344	30 32 32	2 8			1	2		8			
776A	8221 T 2 F	8220	1226	1113	30 32 32	0 2 4 8	12	8	024	6	02				
776A	8235 T 2 W	8228	1227	0014	30 32 32	1 9	22	8	00	1	0	8			
777A	8245 T 1 W	8243	1228	0037	30 31 31	1 9		0	1	0		9			
777A	8249 T 1 W	8246	1228	0530	30 32 32	12 6	22	1	1		6	9			
777A	8261 T 2 P	8257	1228	2322	30 32 32	01 9			0	067	0	59			
777A	8263 T 2 W	8262	1229	0729	30 32 32	2	4			0					
777A	8278 T 2 W	8277	1230	0752	30 32 32	012			7		3				
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KEY TO GEOGRAPHICAL AREAS

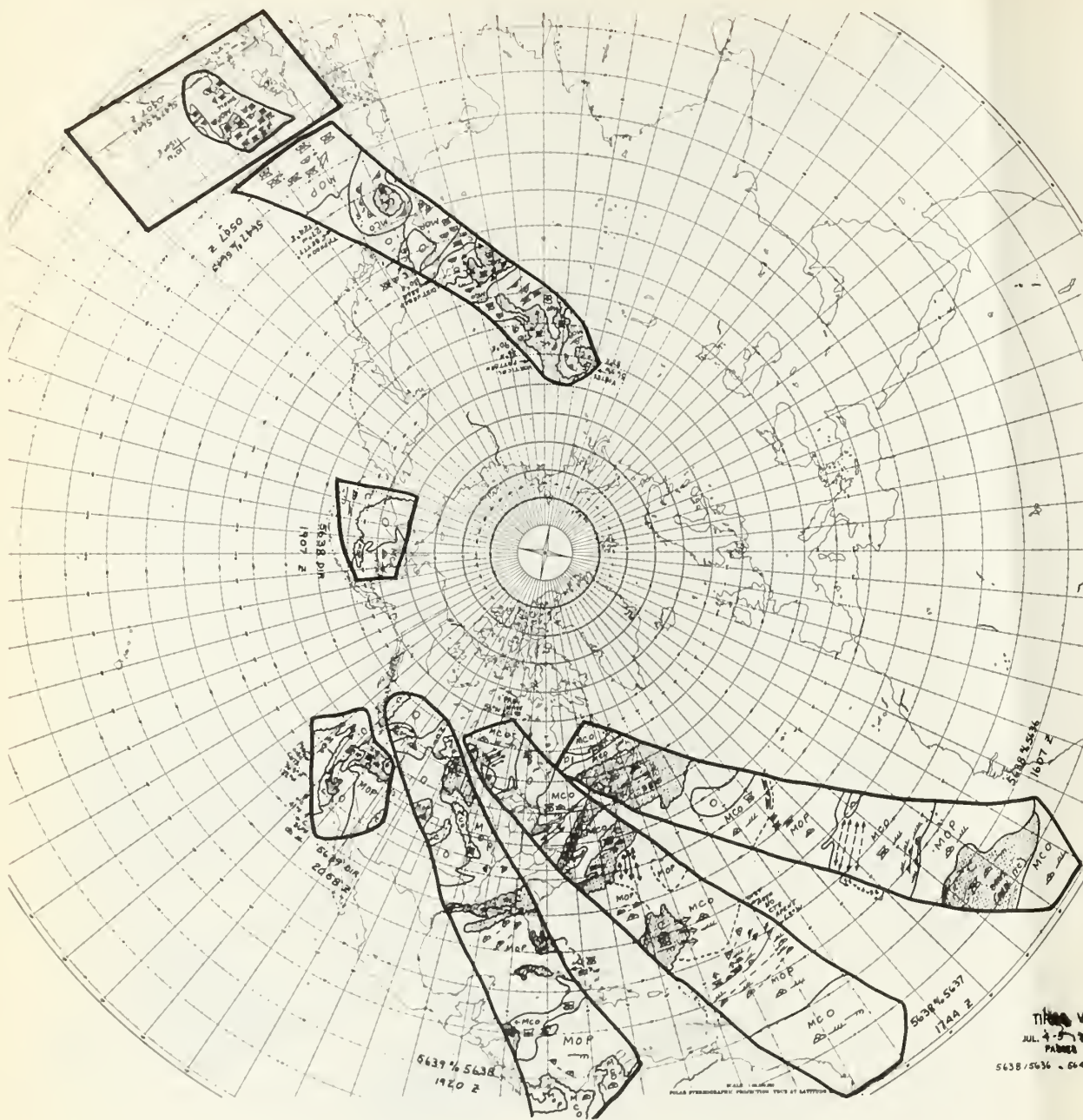


TIROS VII

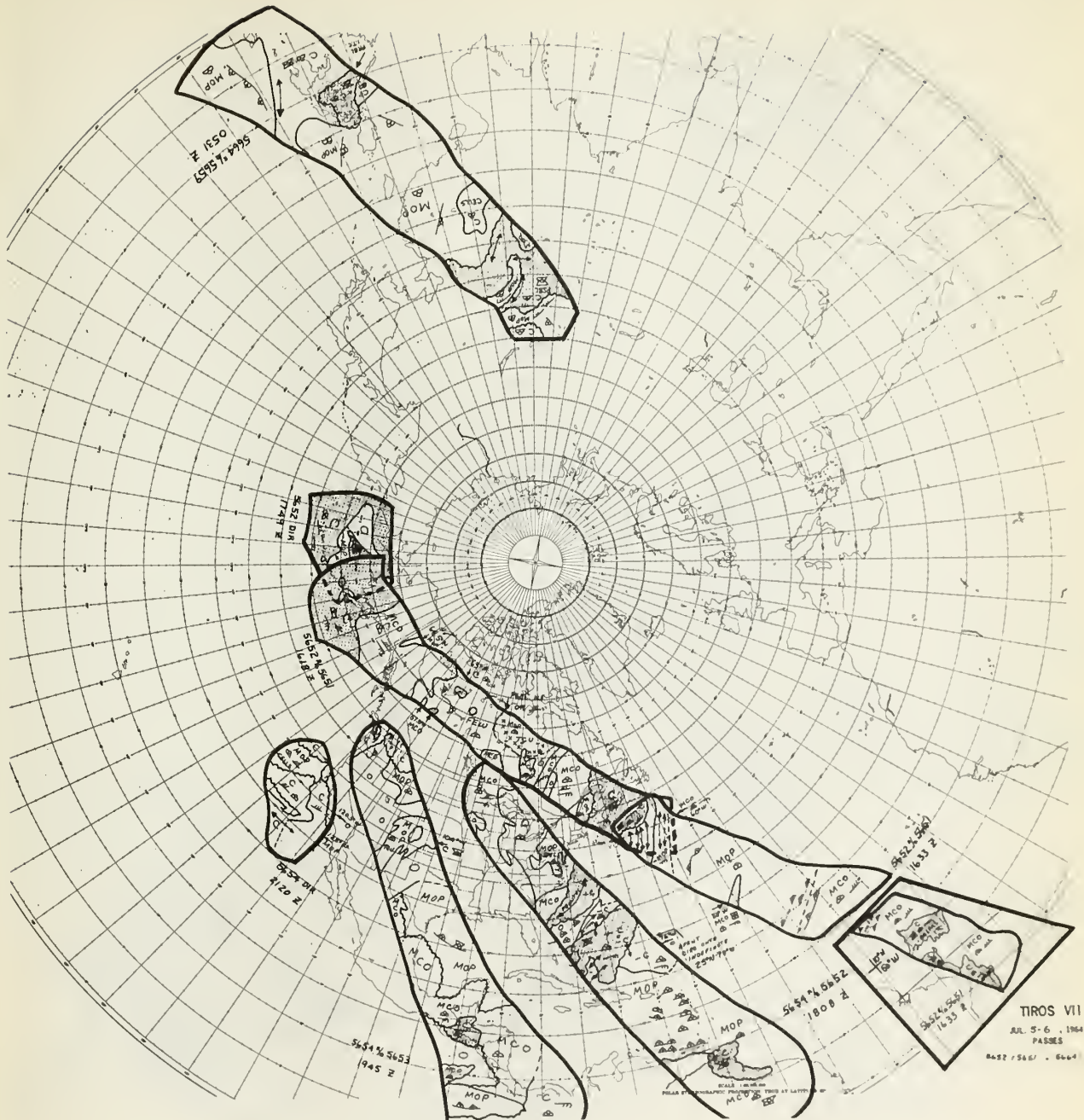
AR 3-4, 1964
PASSES

PASSE:

5429 5621 . 5634 5630



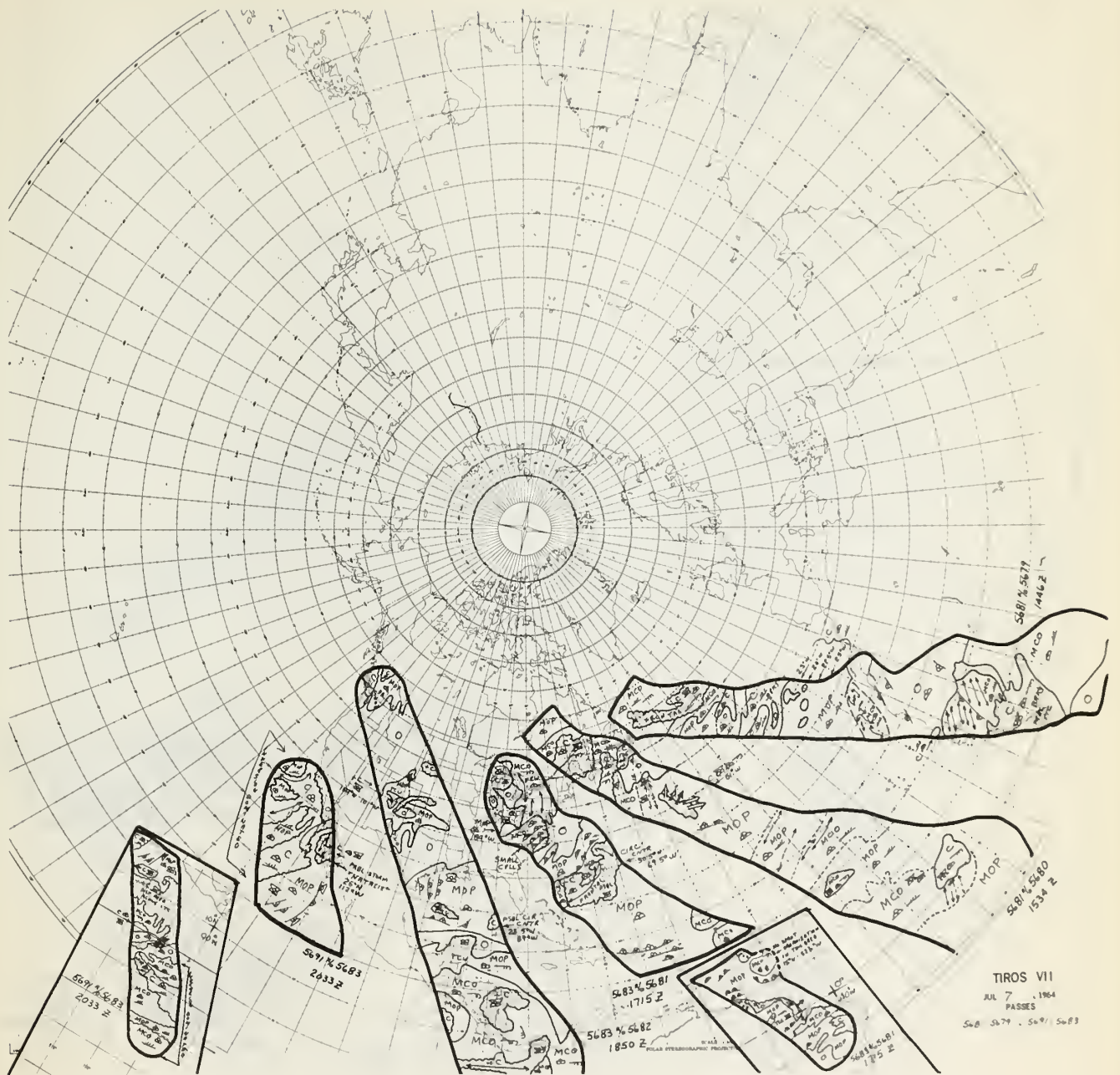
TIR 461
 JUL 4 5 1954
 PABER
 5638/5636 - 5647/5648



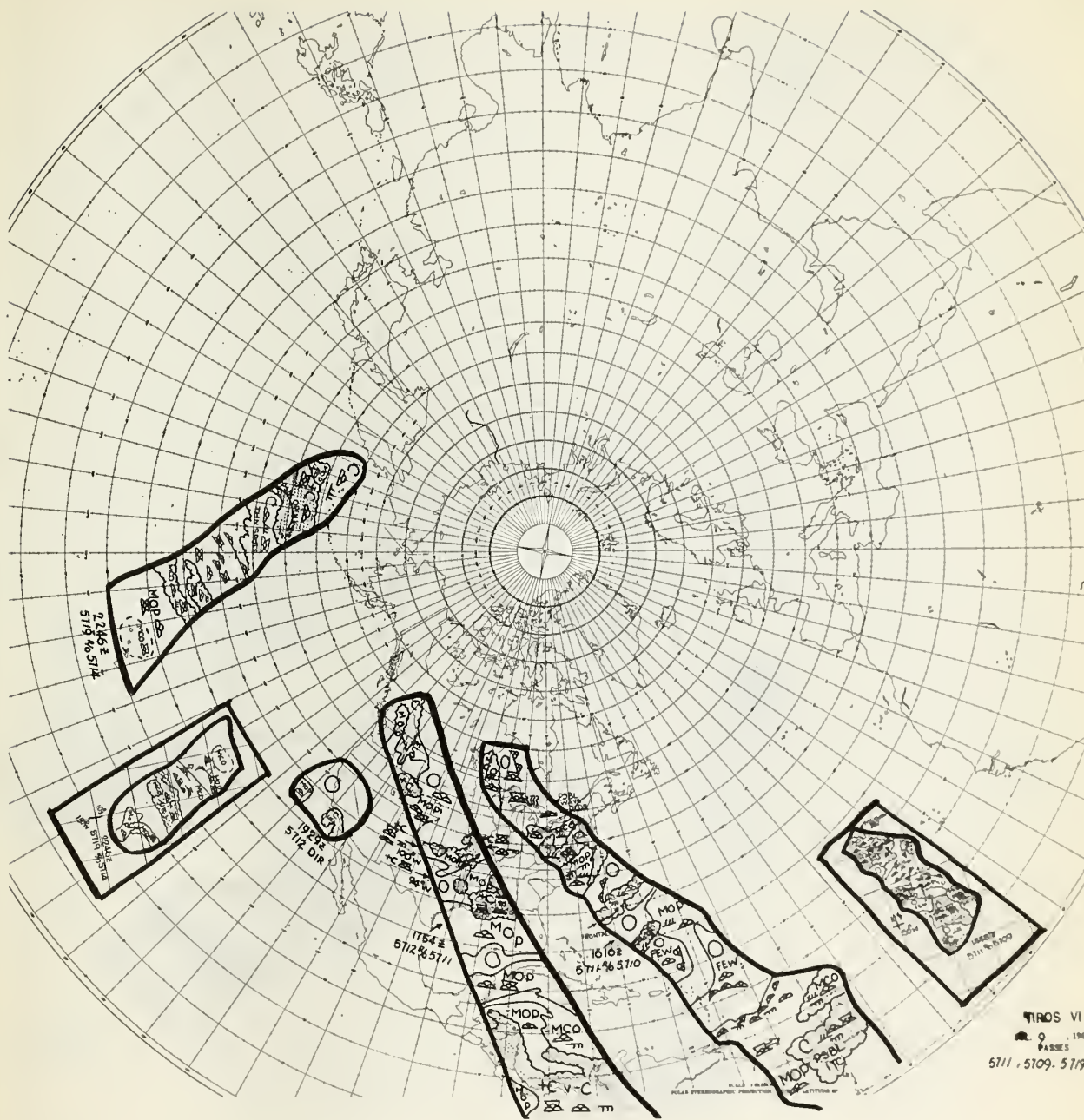
TIROS VII

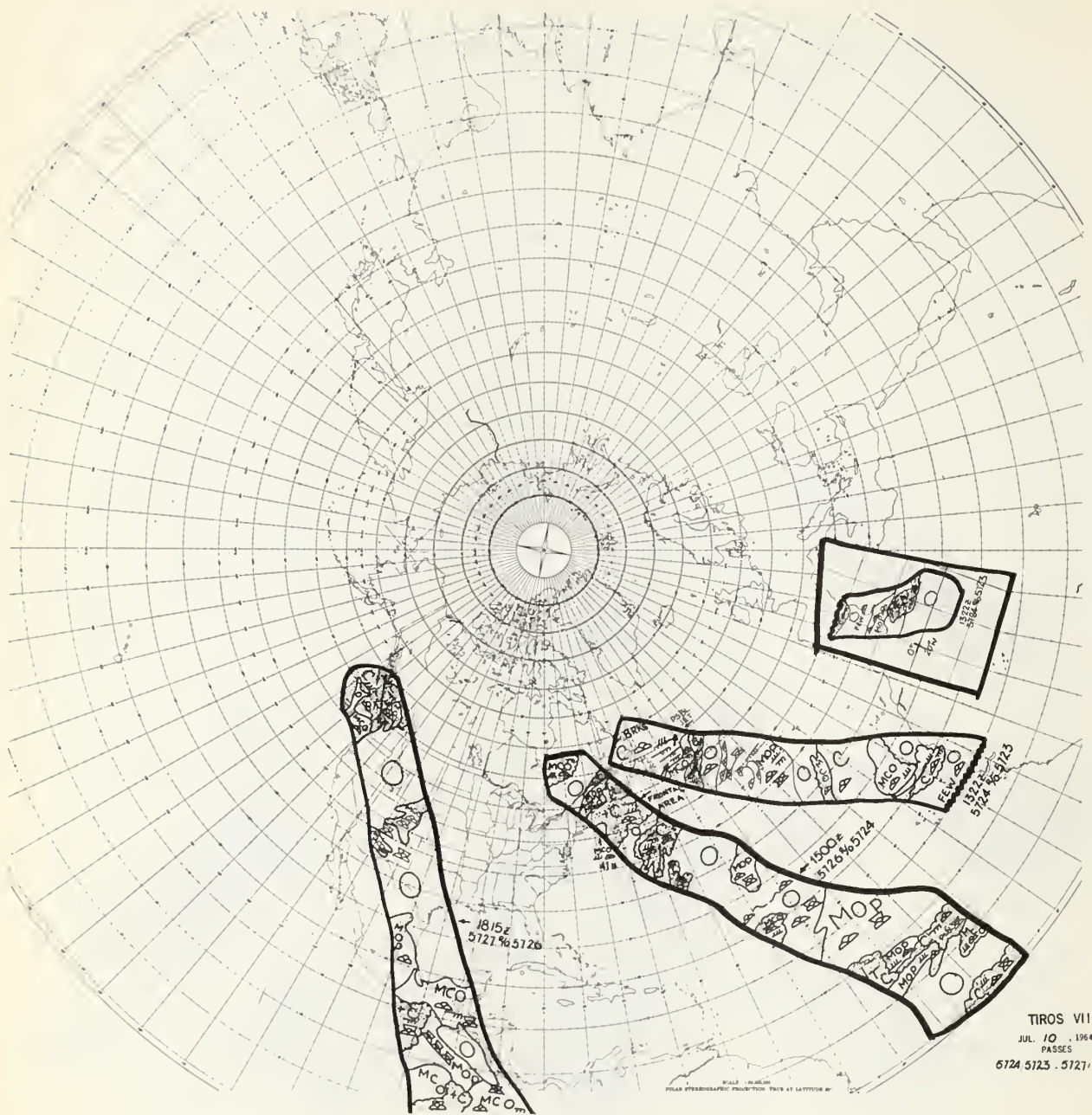
JUL 5-6, 1964
PASSES

Re 52 / 5657 - 6664 5659

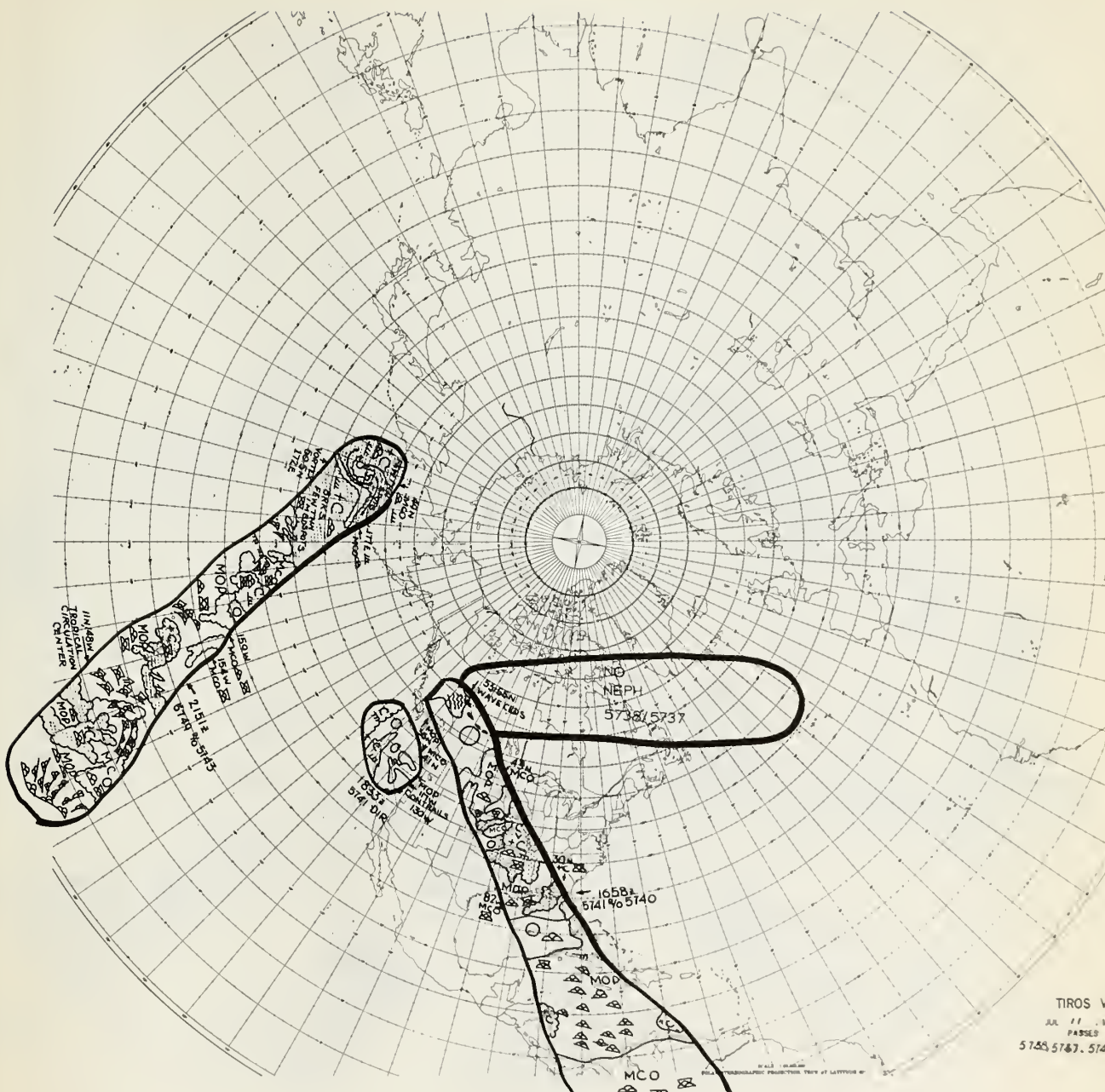


TIROS VII
 JUL 7, 1964
 PASSES
 568 5679, 5691, 5683

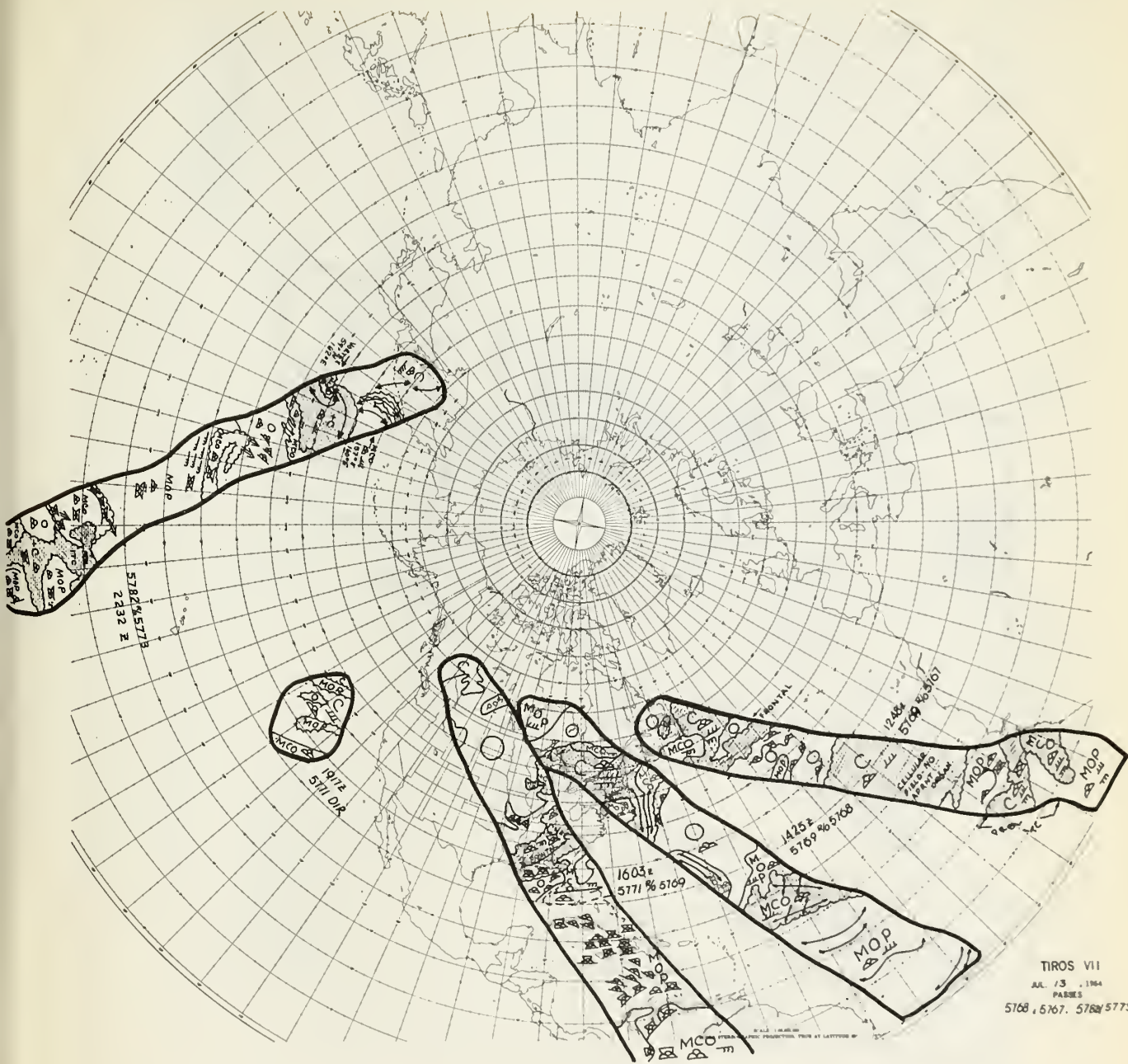




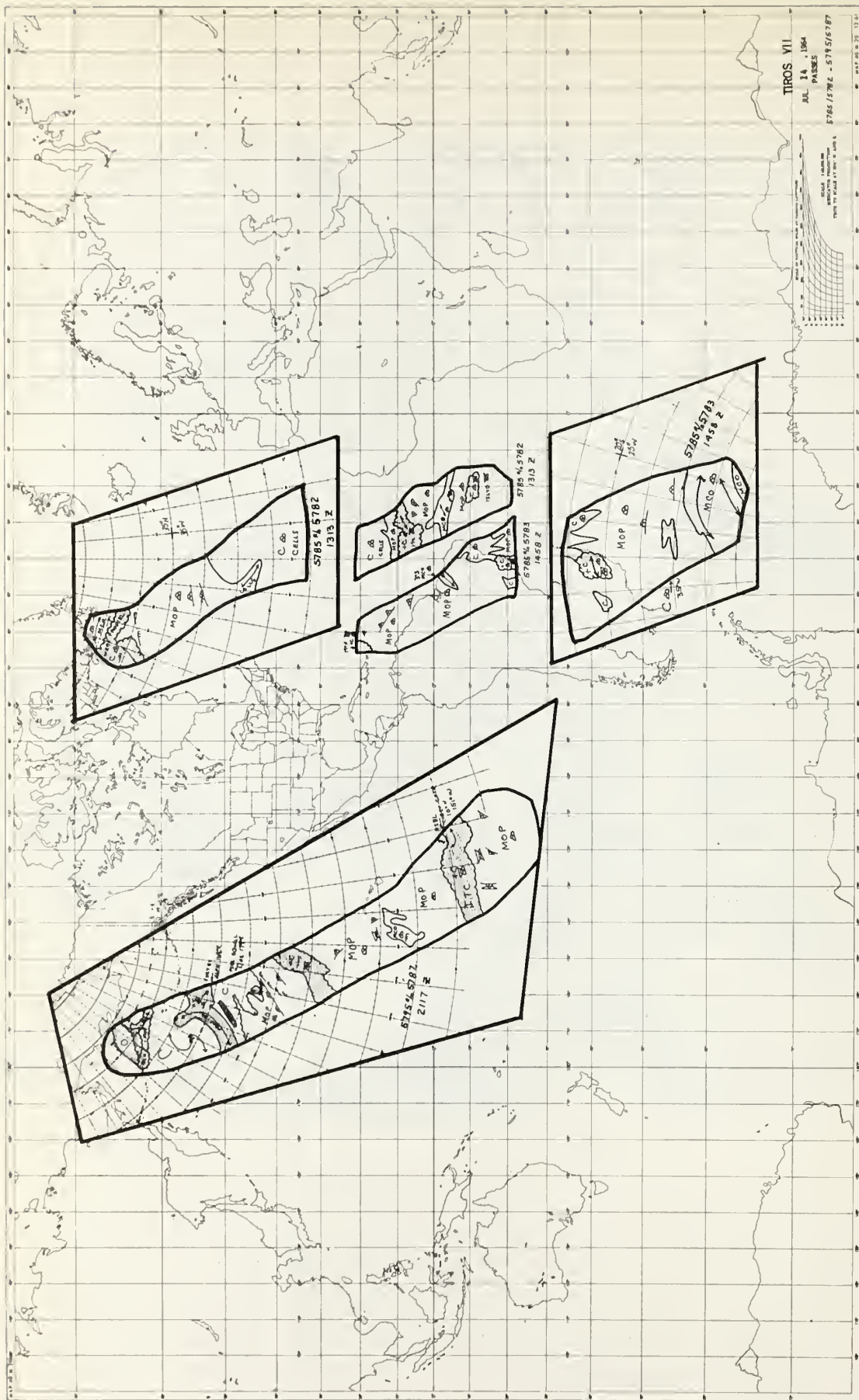
TIROS VII
JUL. 10, 1964
PASSES
5724 5723 . 5727 5726

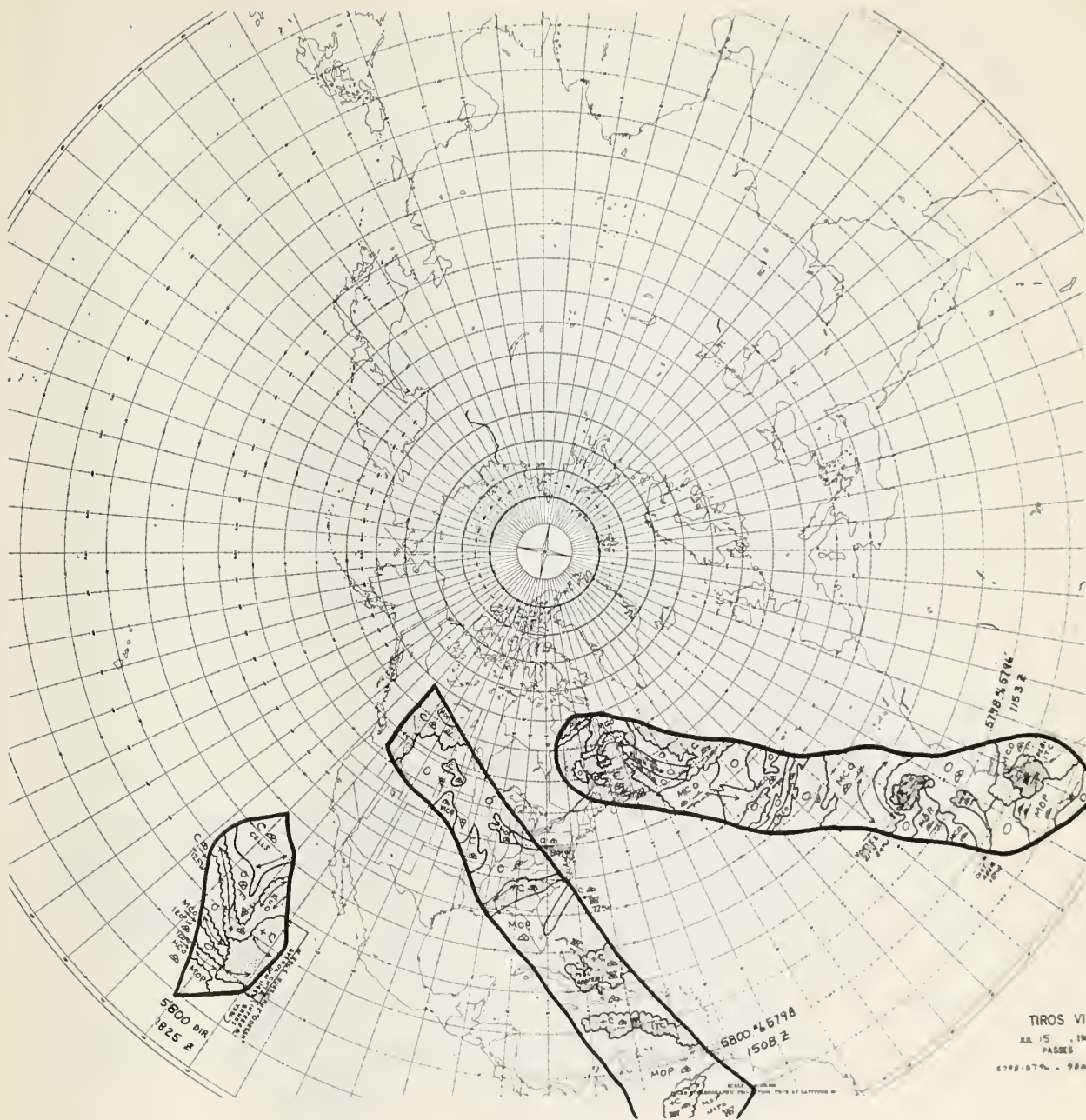


TIROS VII
JUL 11 1964
PASSED
5148, 5147, 5149, 5143

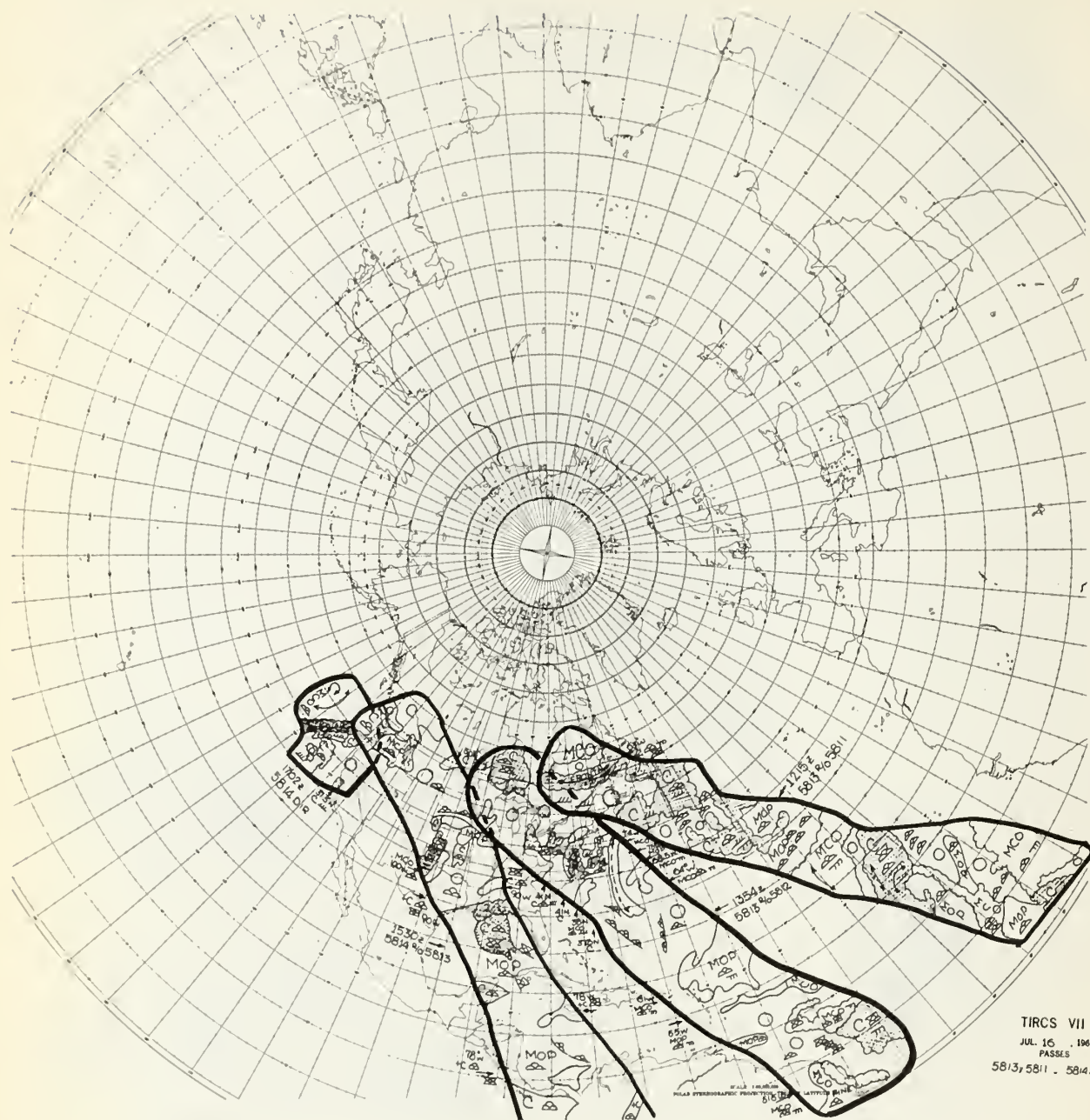


TIROS VII
 JUL 13 - 1964
 PAGES
 5768, 5767, 5768, 5773

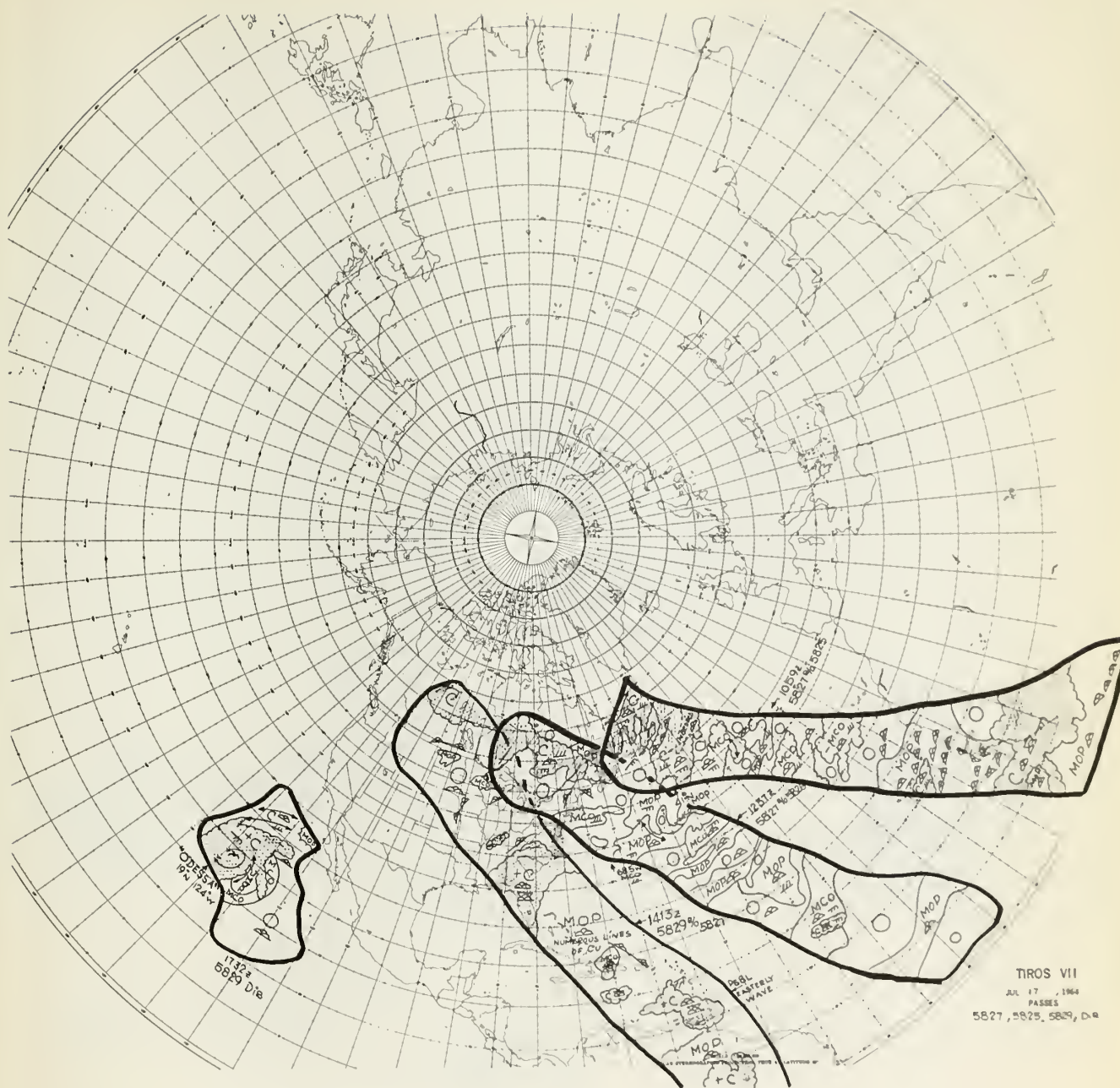


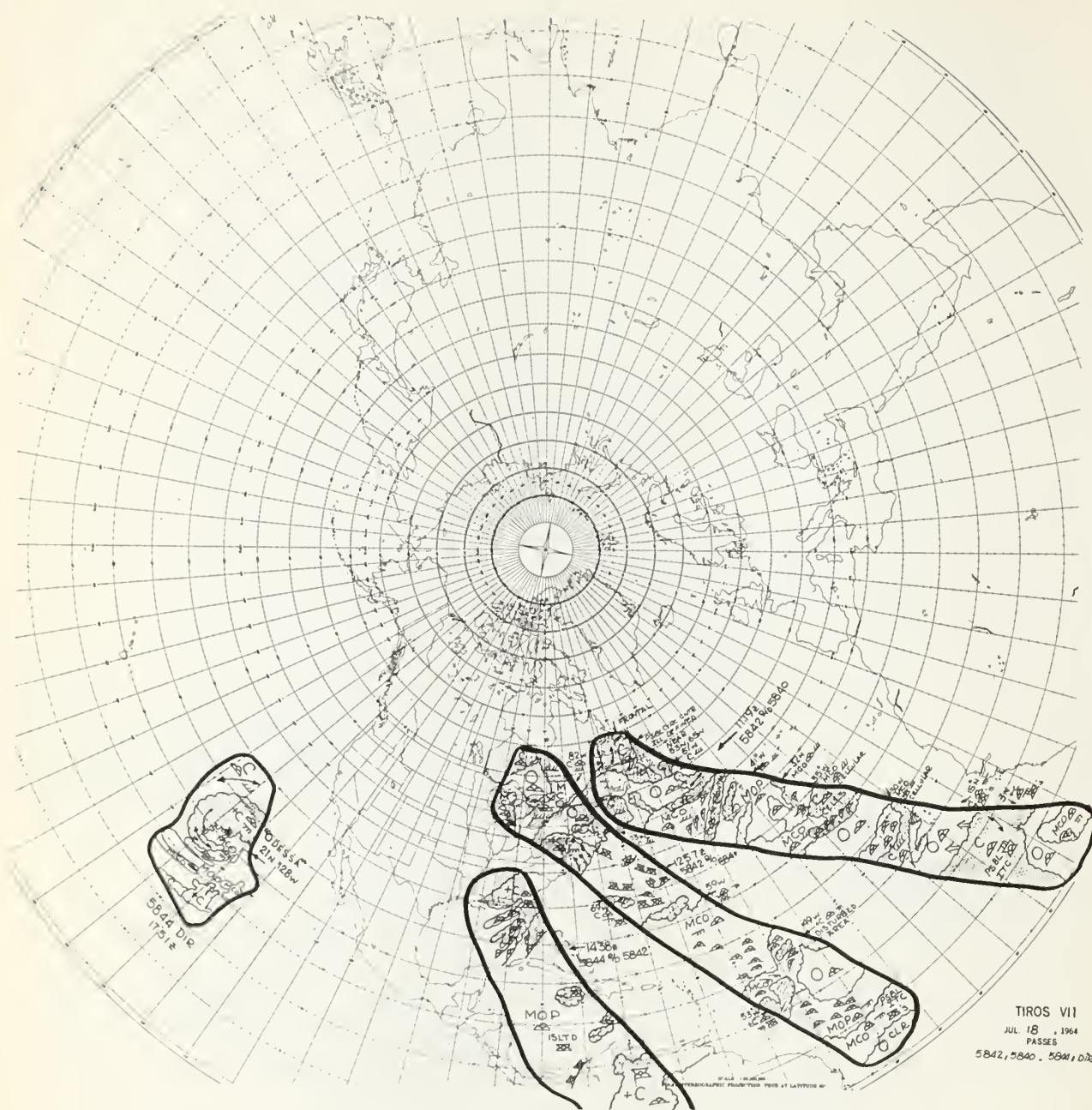


TIROS VII
 JUL 15, 1964
 PAGES
 6798/5796 - 5800/5798



TIRCS VII
JUL. 10, 1964
PASSES
5813, 5811 - 5814, D.R.



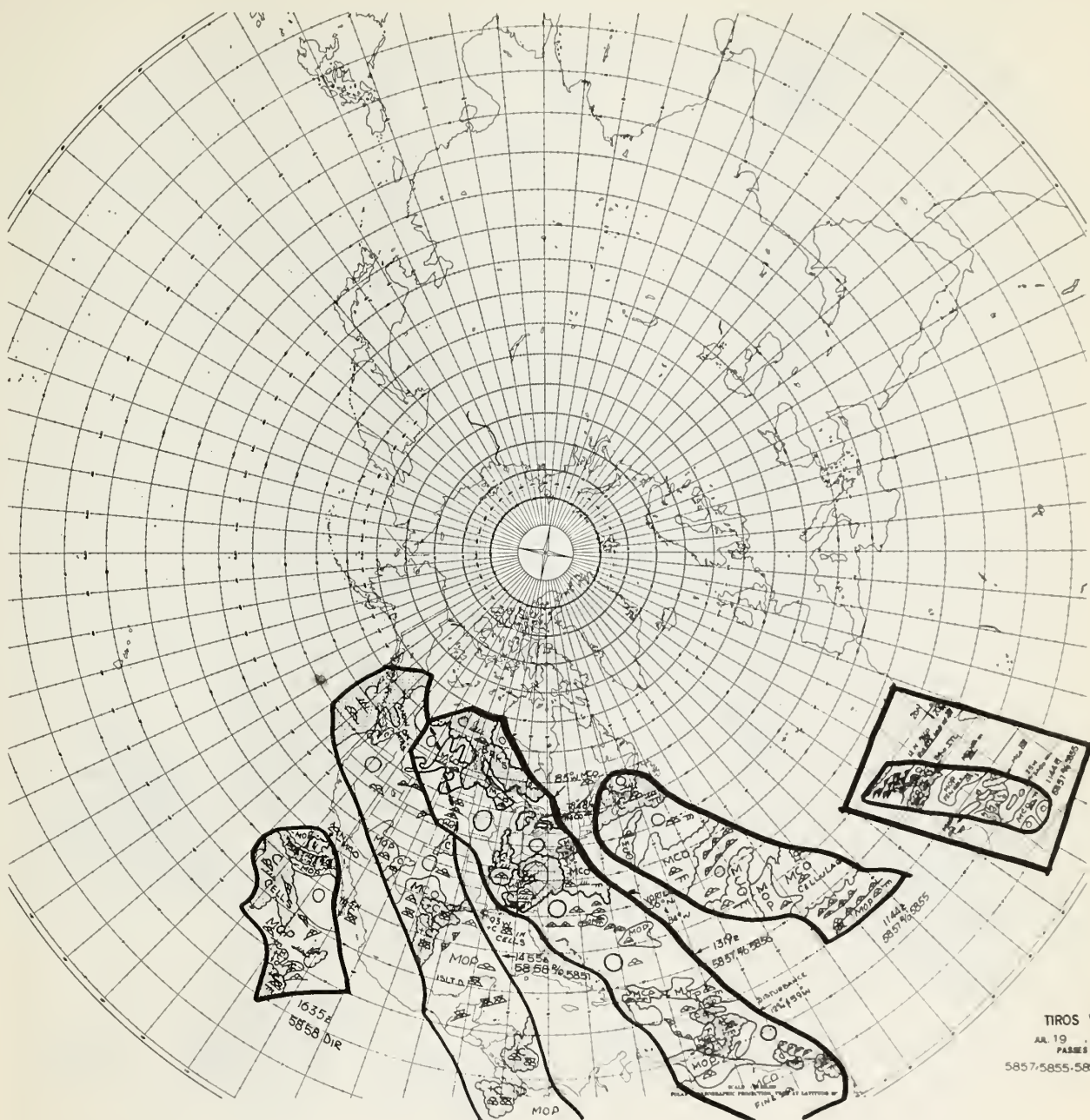


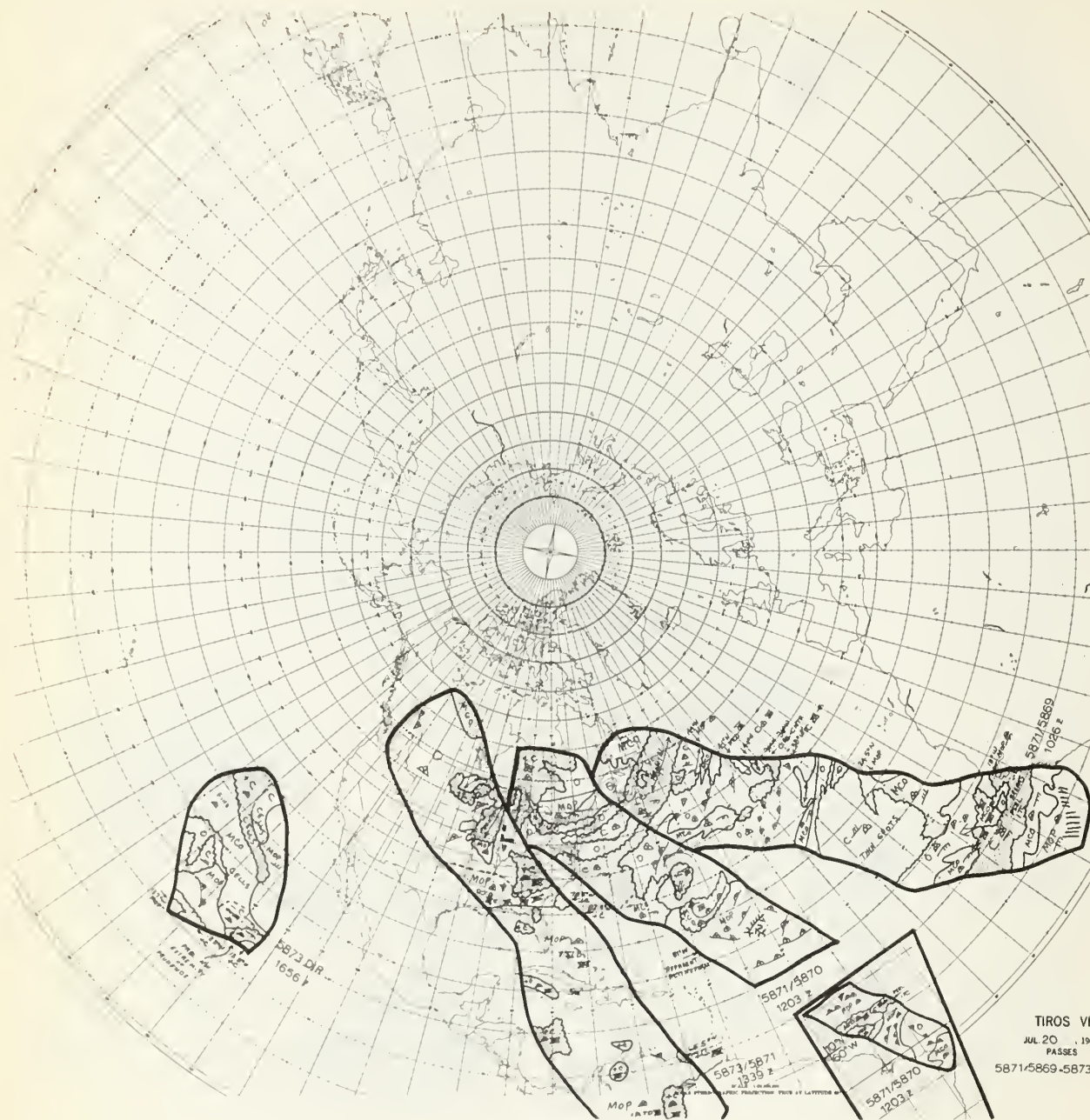
TIROS VII

JUL. 18, 1964

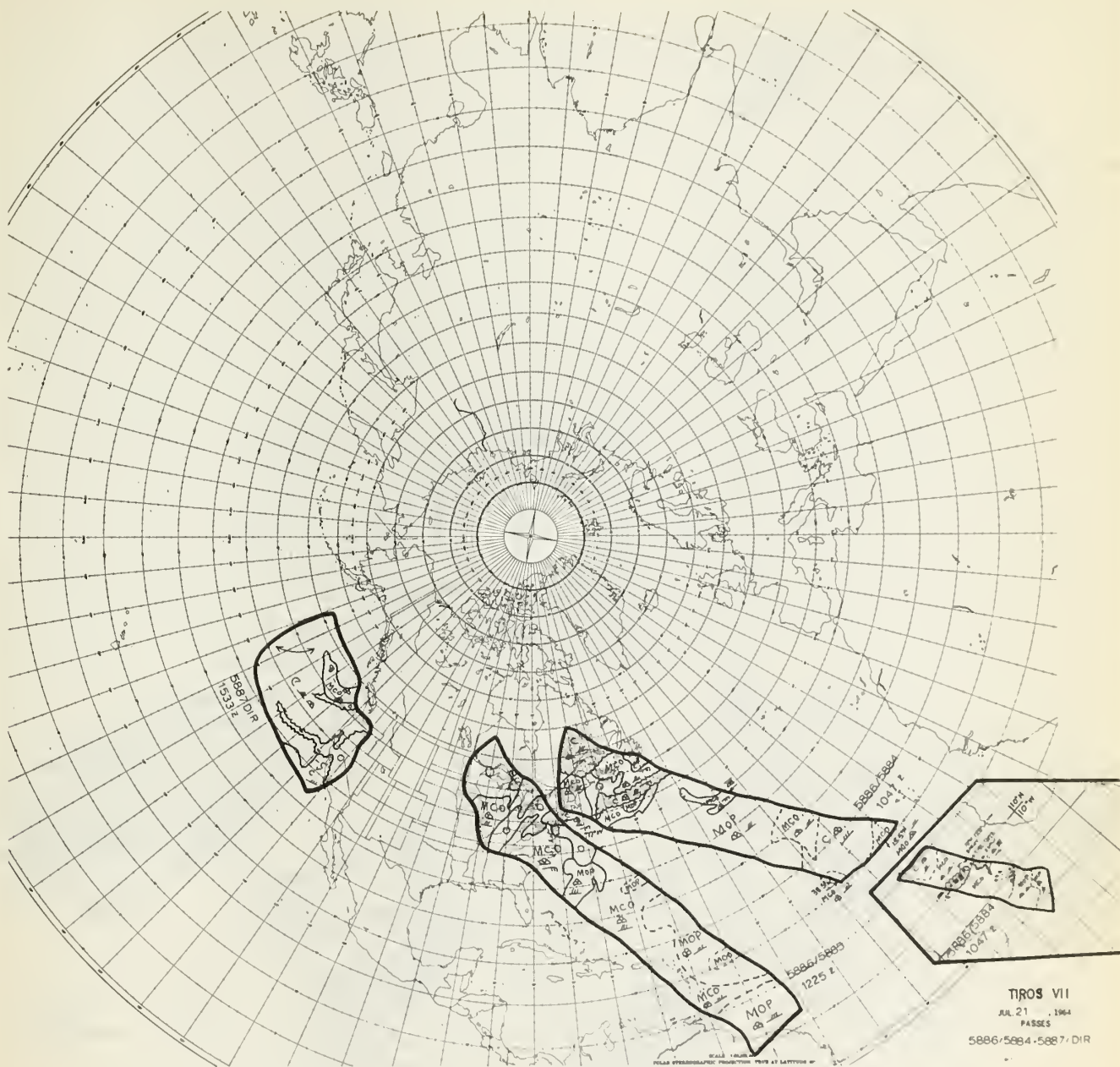
PASSES

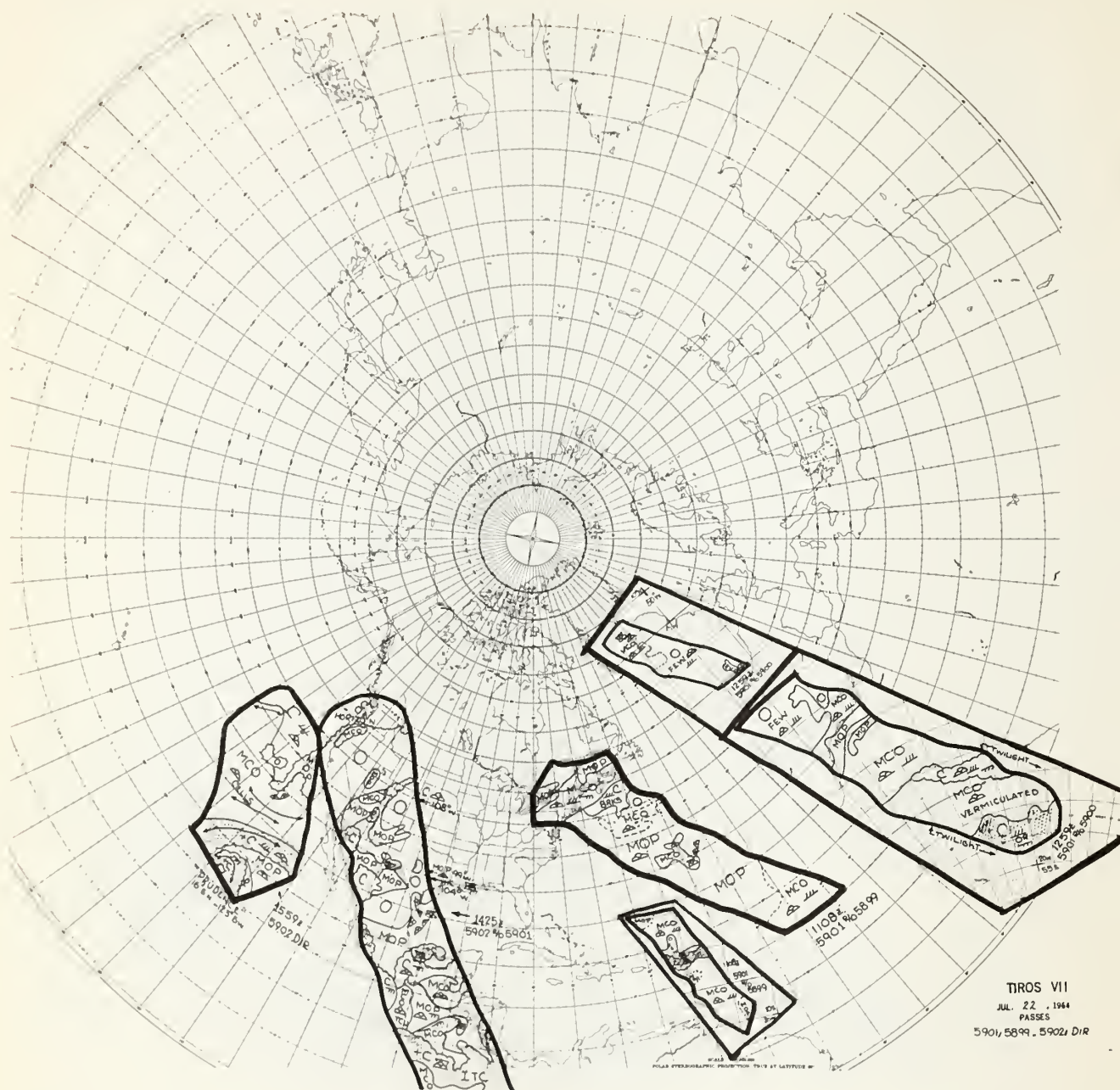
5842, 5840, 5841, Dir

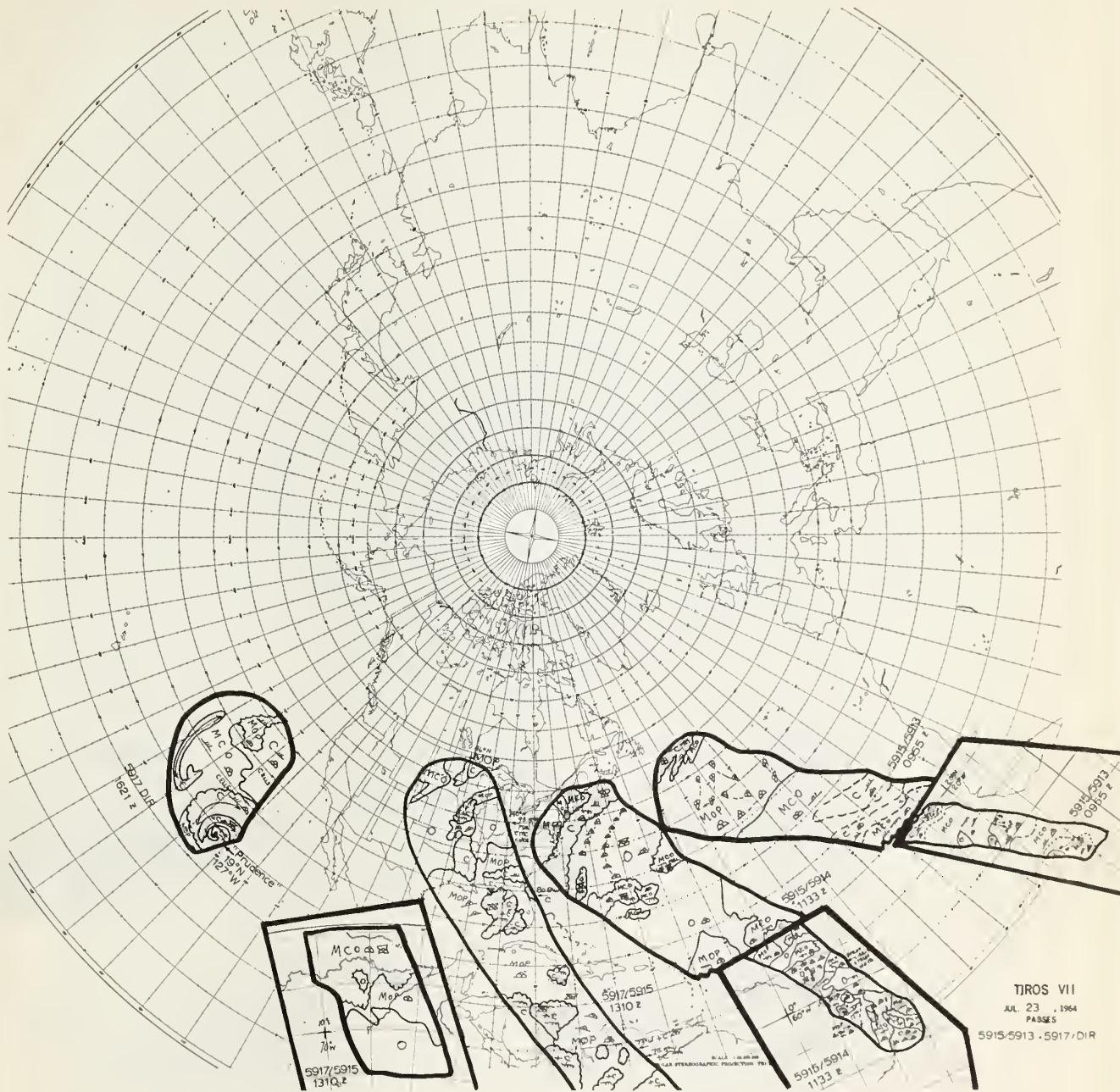




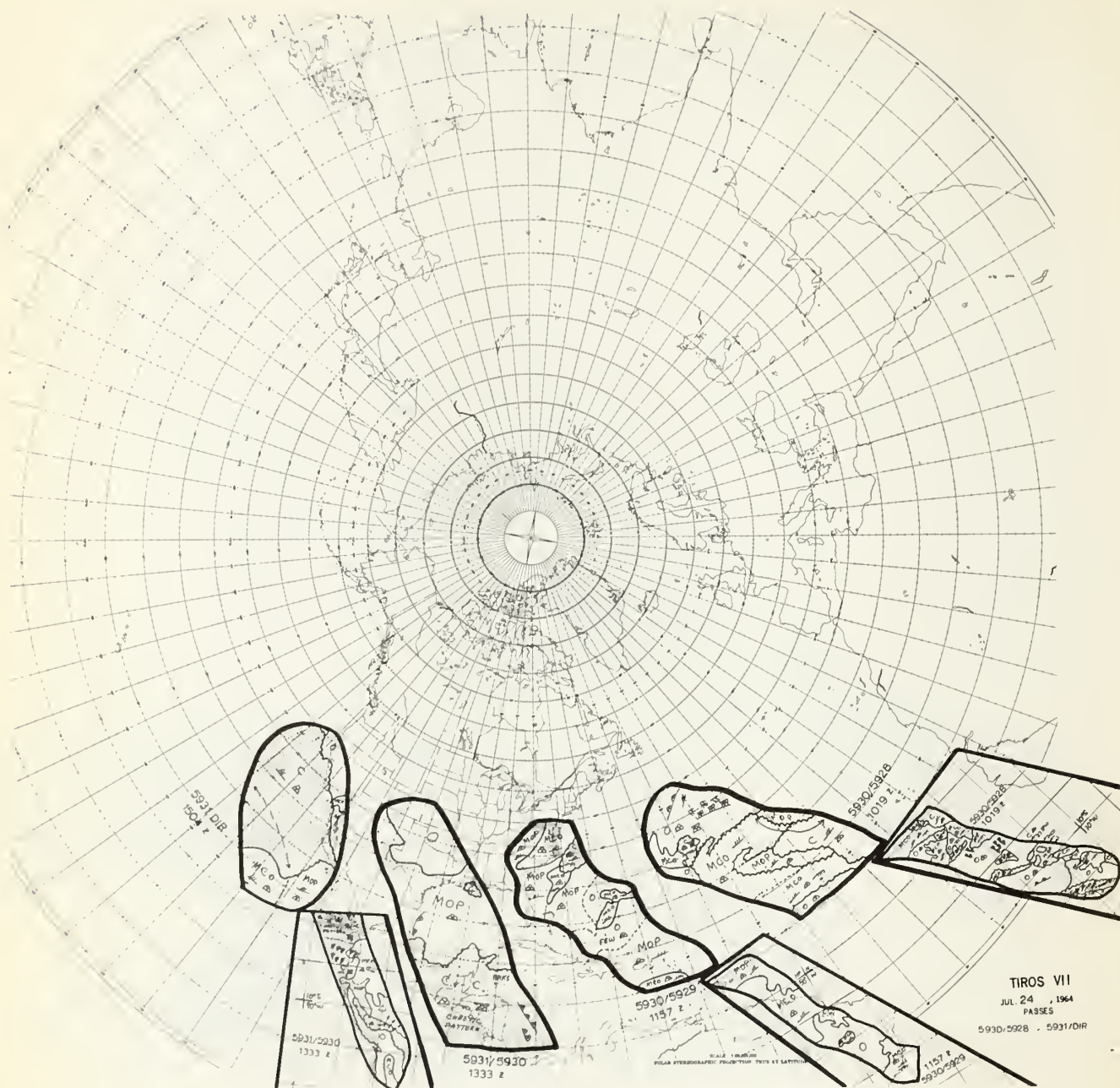
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JUL 20, 1964
PASSES
5871/5869-5873/DIR

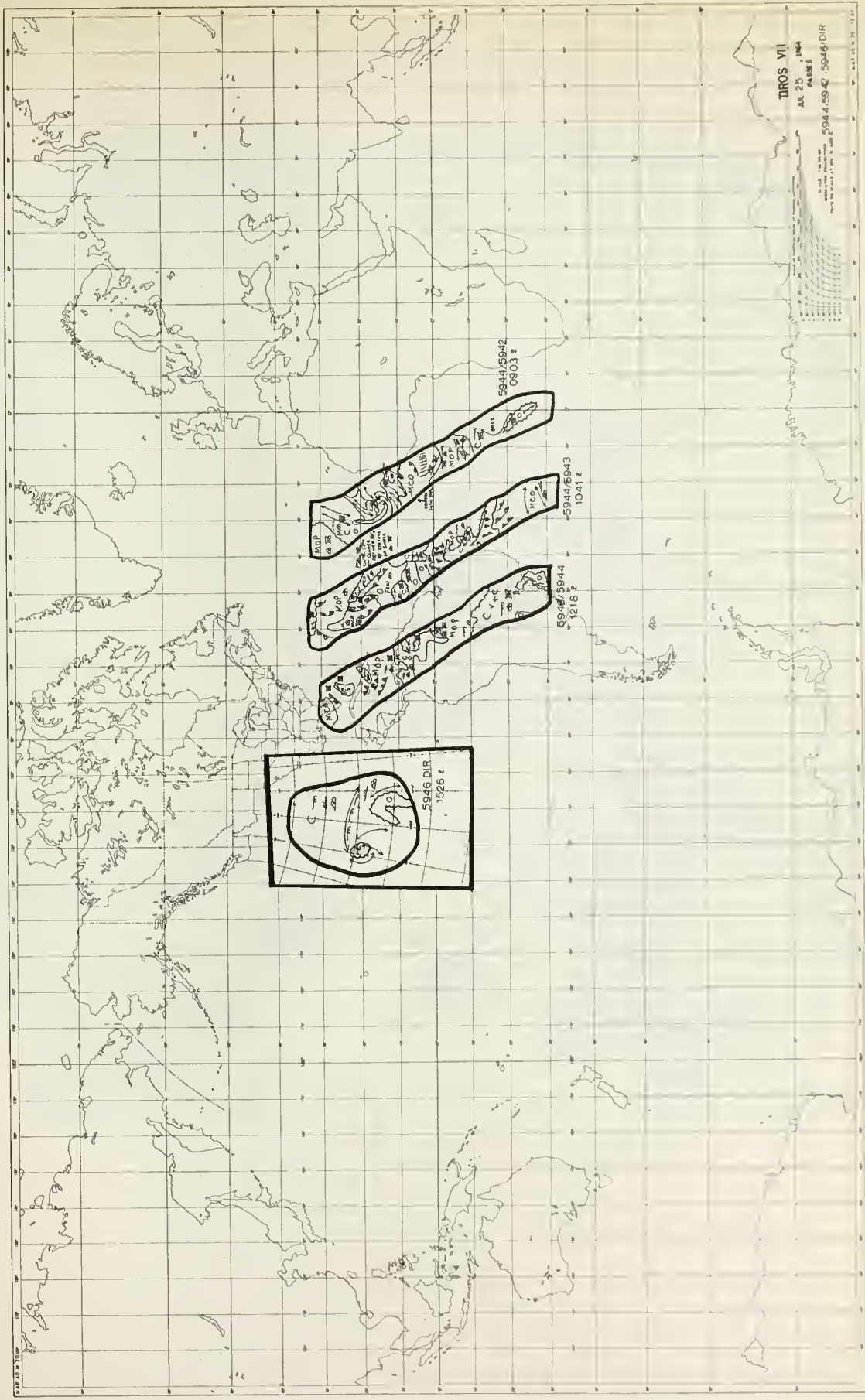






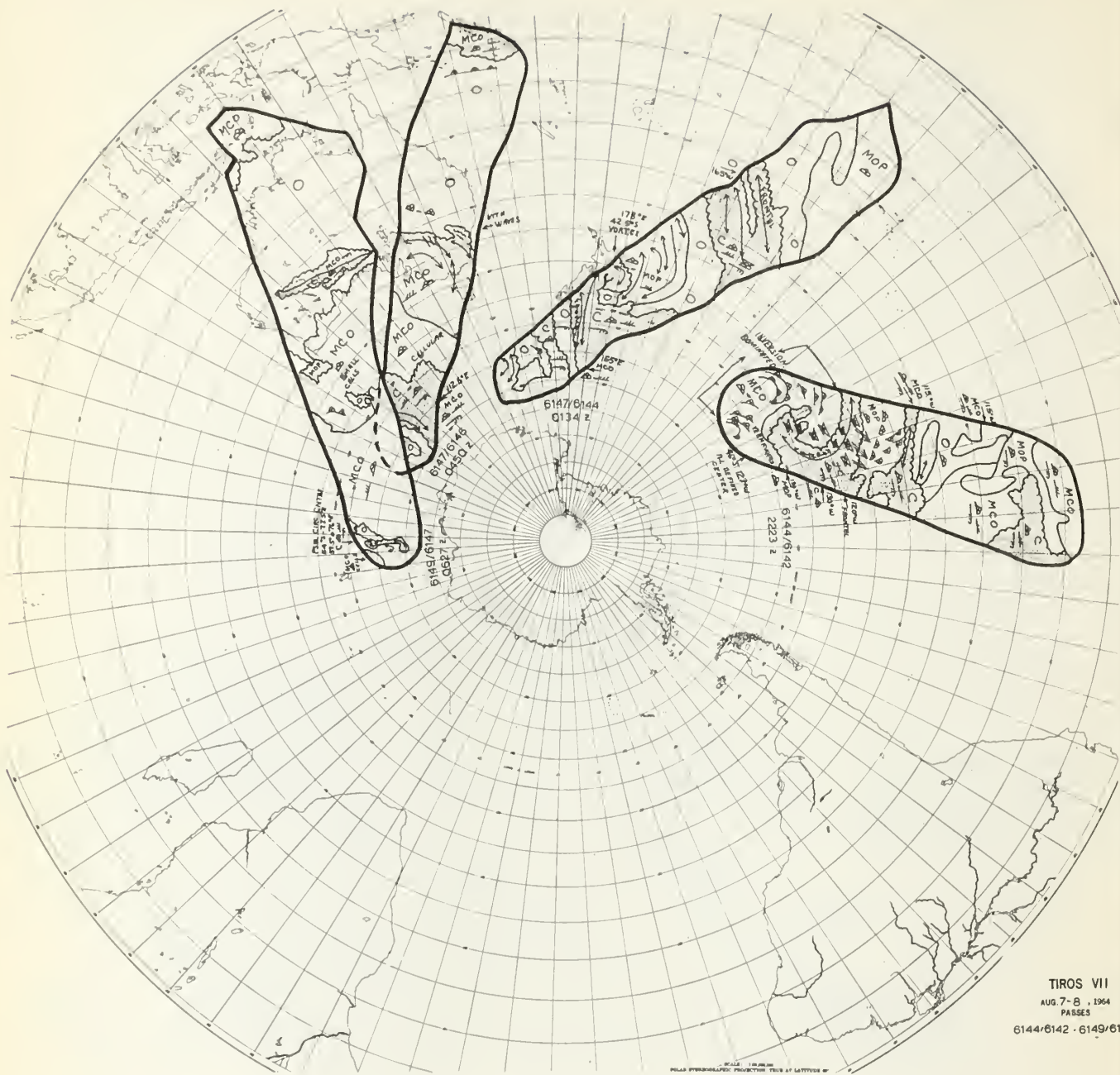
TIROS VII
JUL 23, 1964
PASSES
5915-5913 - 5917-DIR



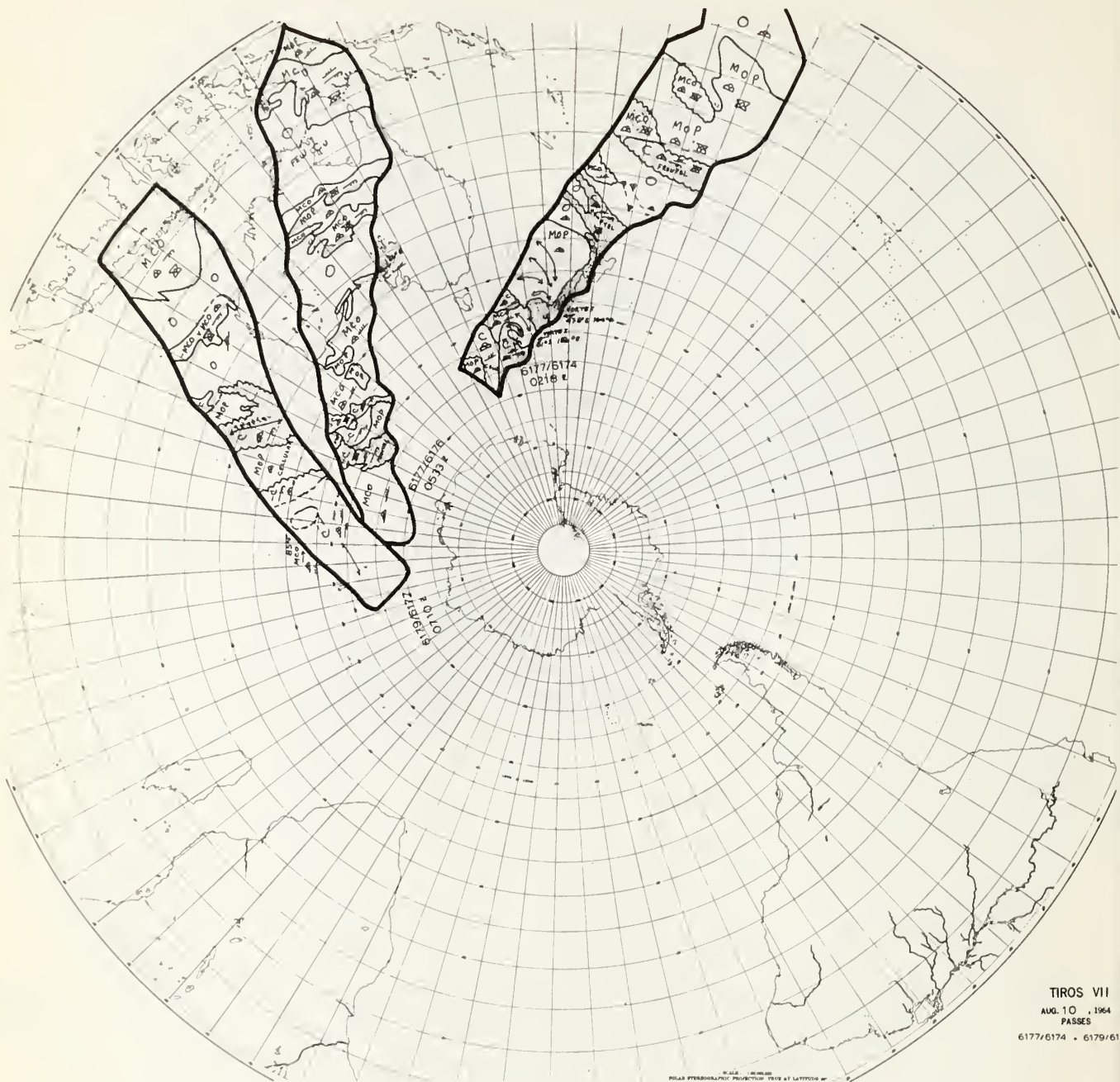


TIROS VII
AUG 25, 1964
PAGES
5944-5945-5946 DIR

Scale
1:100,000
NAD 83
Datum: North American Datum of 1983
Units: Meters
Projection: UTM
Zone: 18N



TIROS VII
AUG. 7-8, 1964
PAGES
6144/6142 - 6149/6147



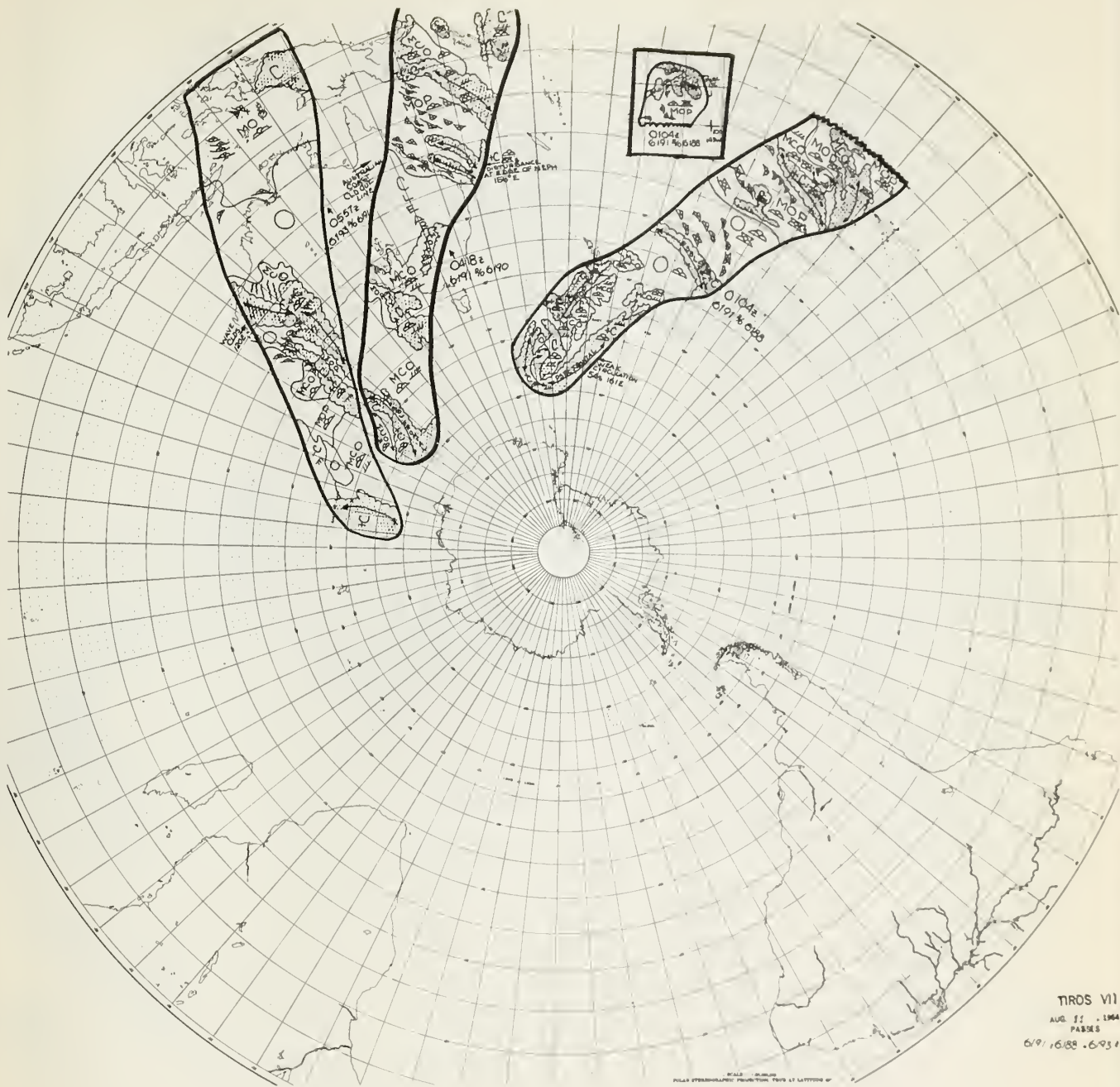
TIROS VII

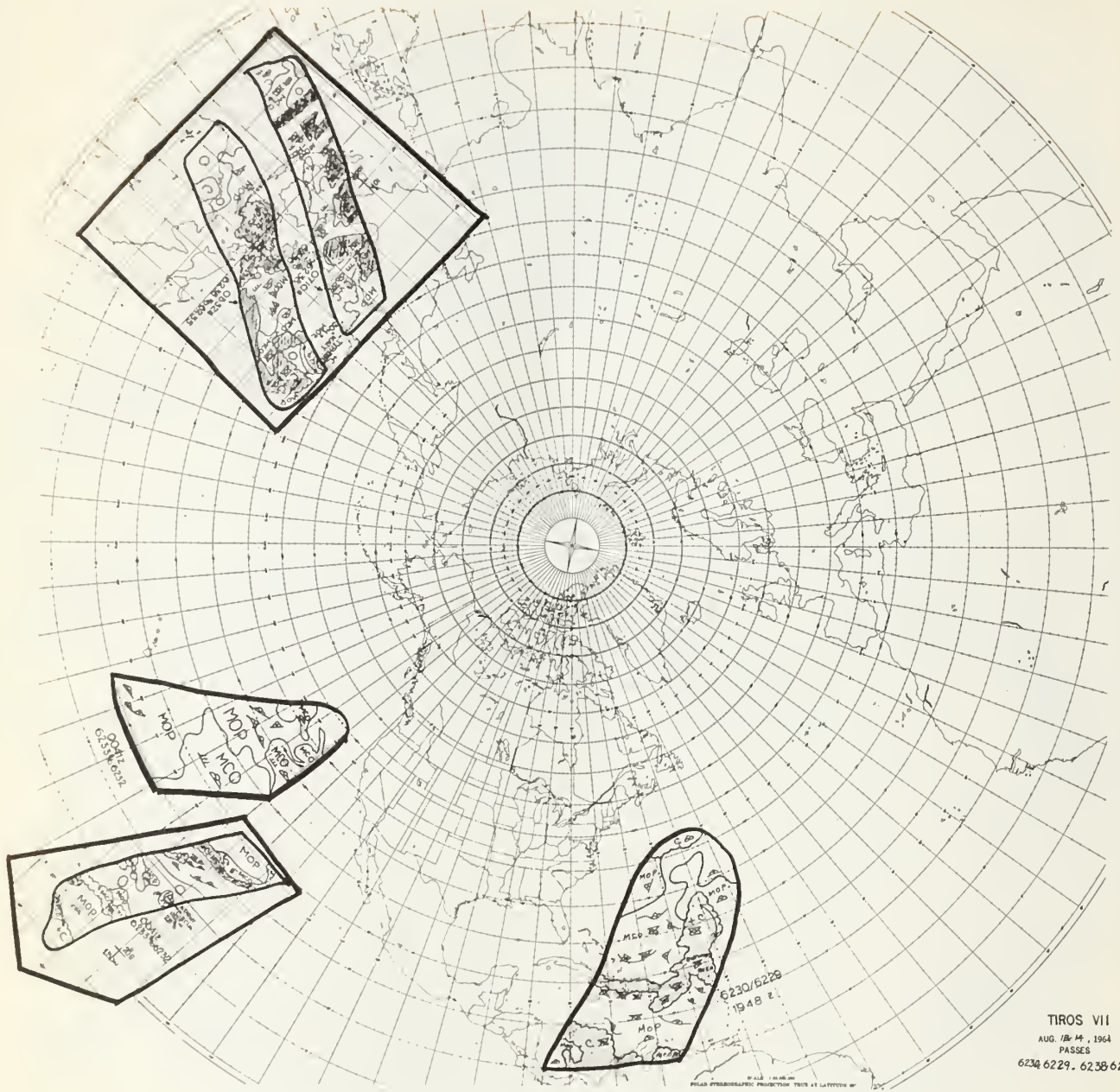
AUG. 10, 1964

PASSES

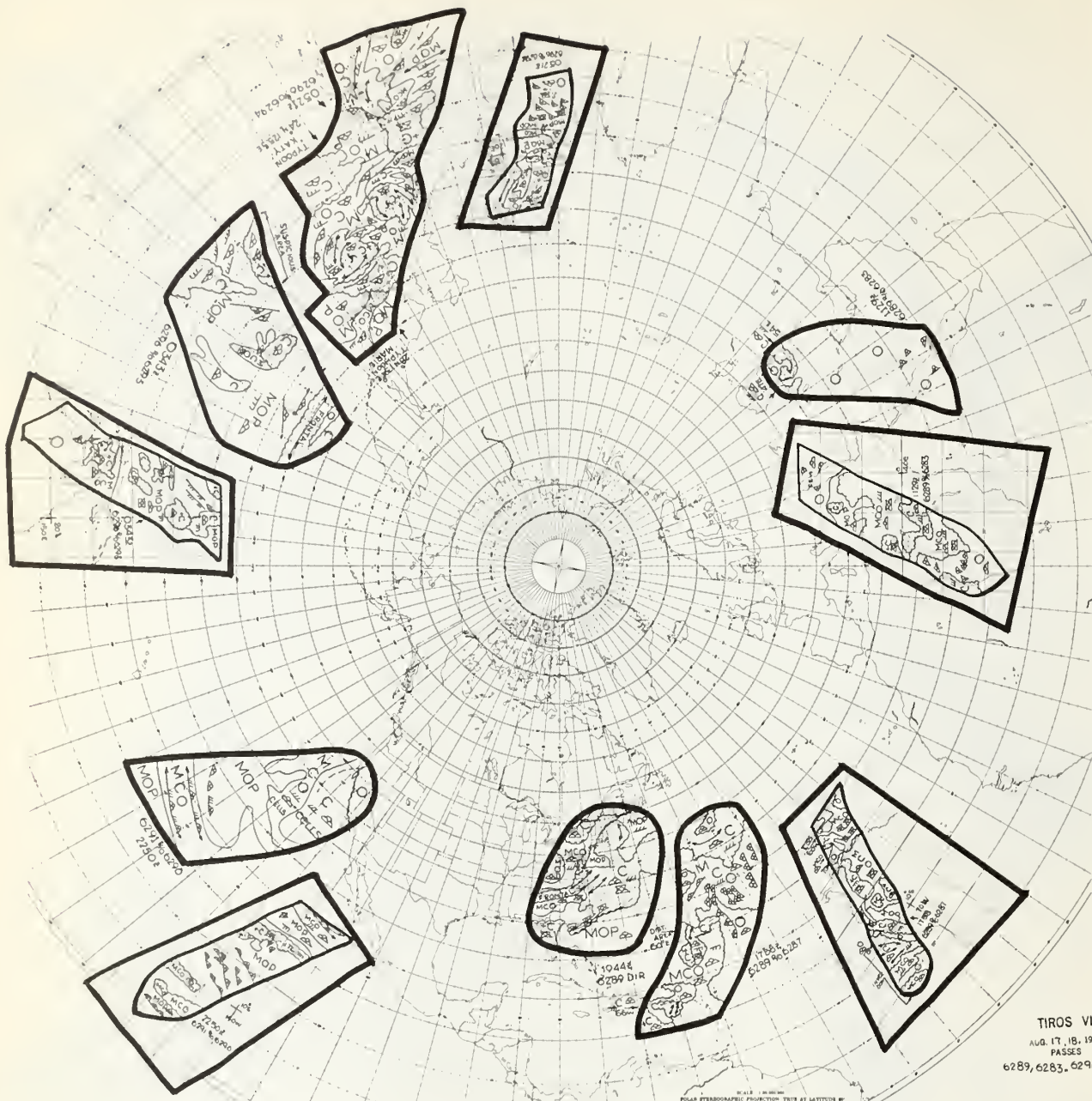
6177/6174 * 6179/6177

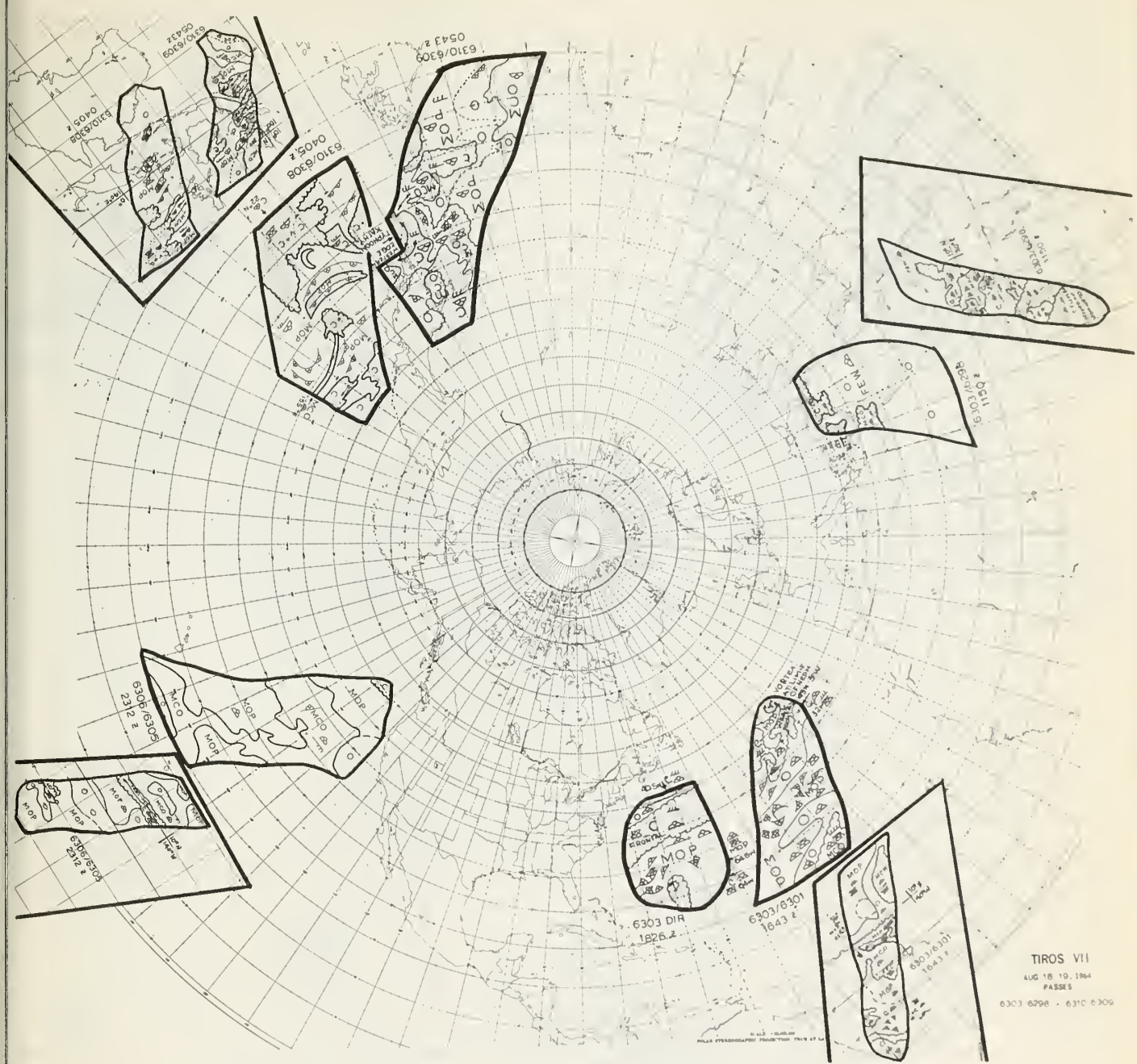
SCALE: 1:100,000,000
POLAR PROJECTION: PROJECTION TYPE AT LATITUDE 90°



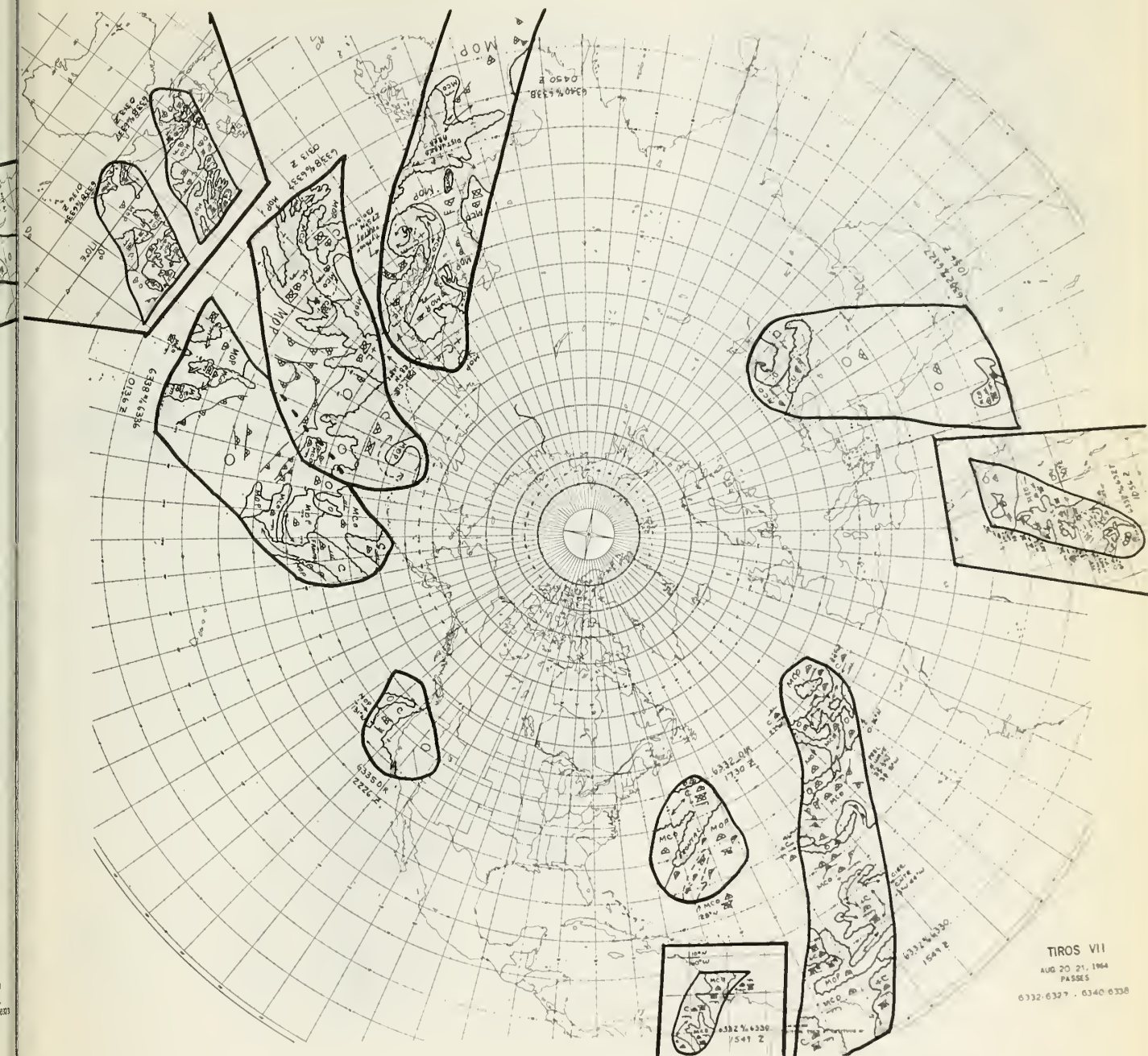


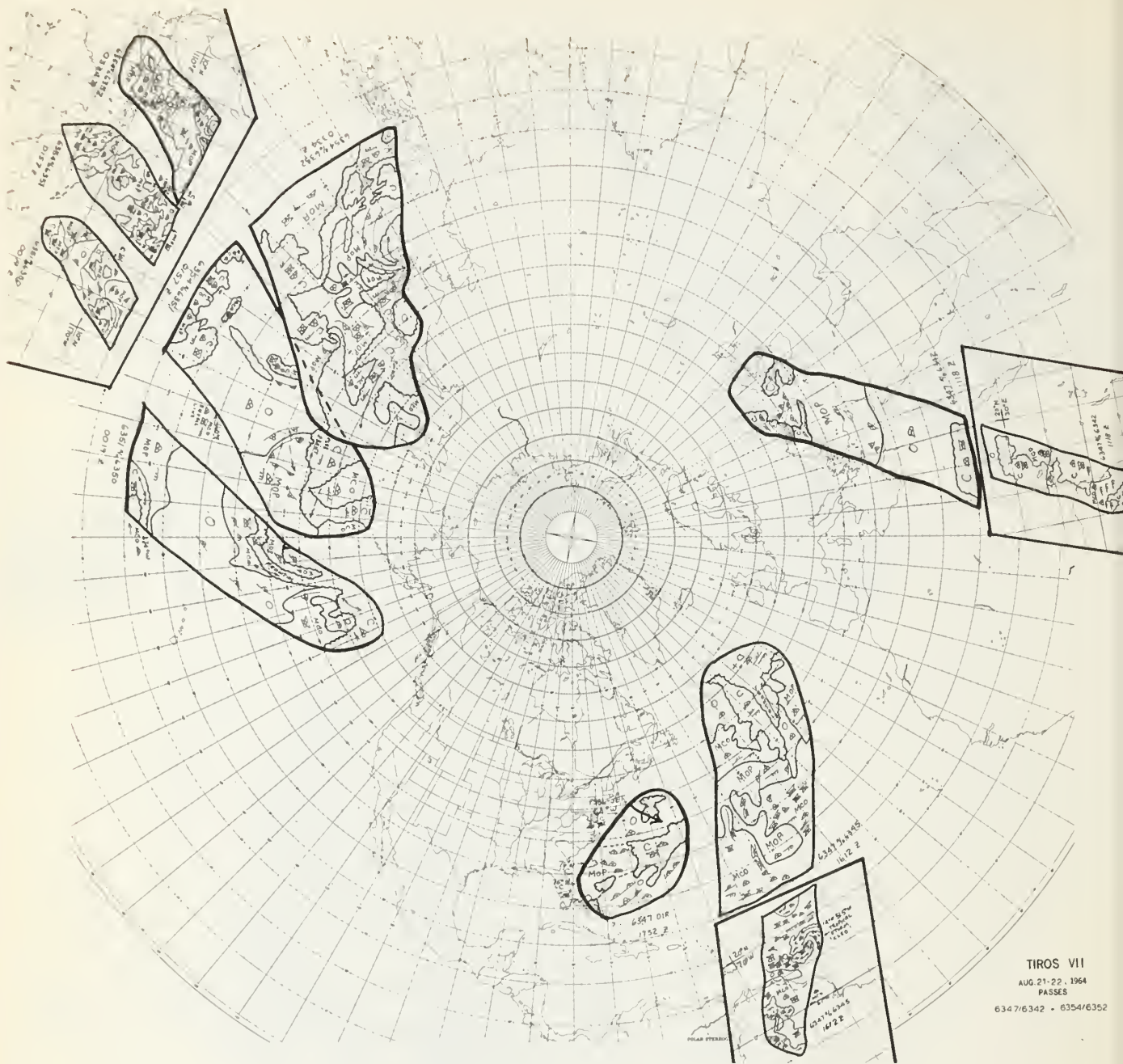
TIROS VII
 AUG. 18/19, 1964
 PASSES
 6234 6229. 6238 6236





TIROS VII
AUG 18 19, 1964
PASSES
6303 6298 - 6310 6309



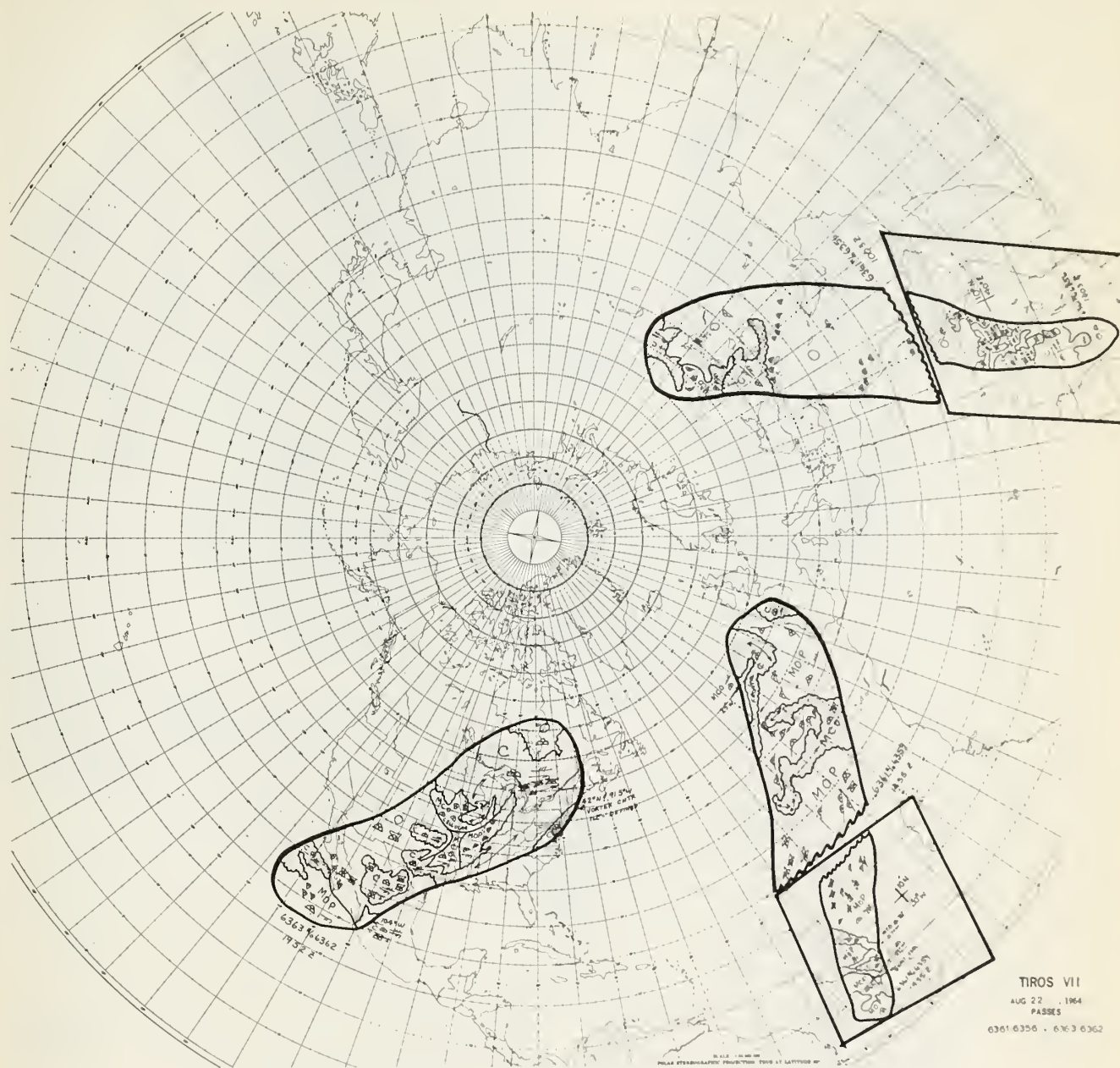


TIROS VII

AUG. 21-22, 1964

PASSES

6347/6342 - 6354/6352

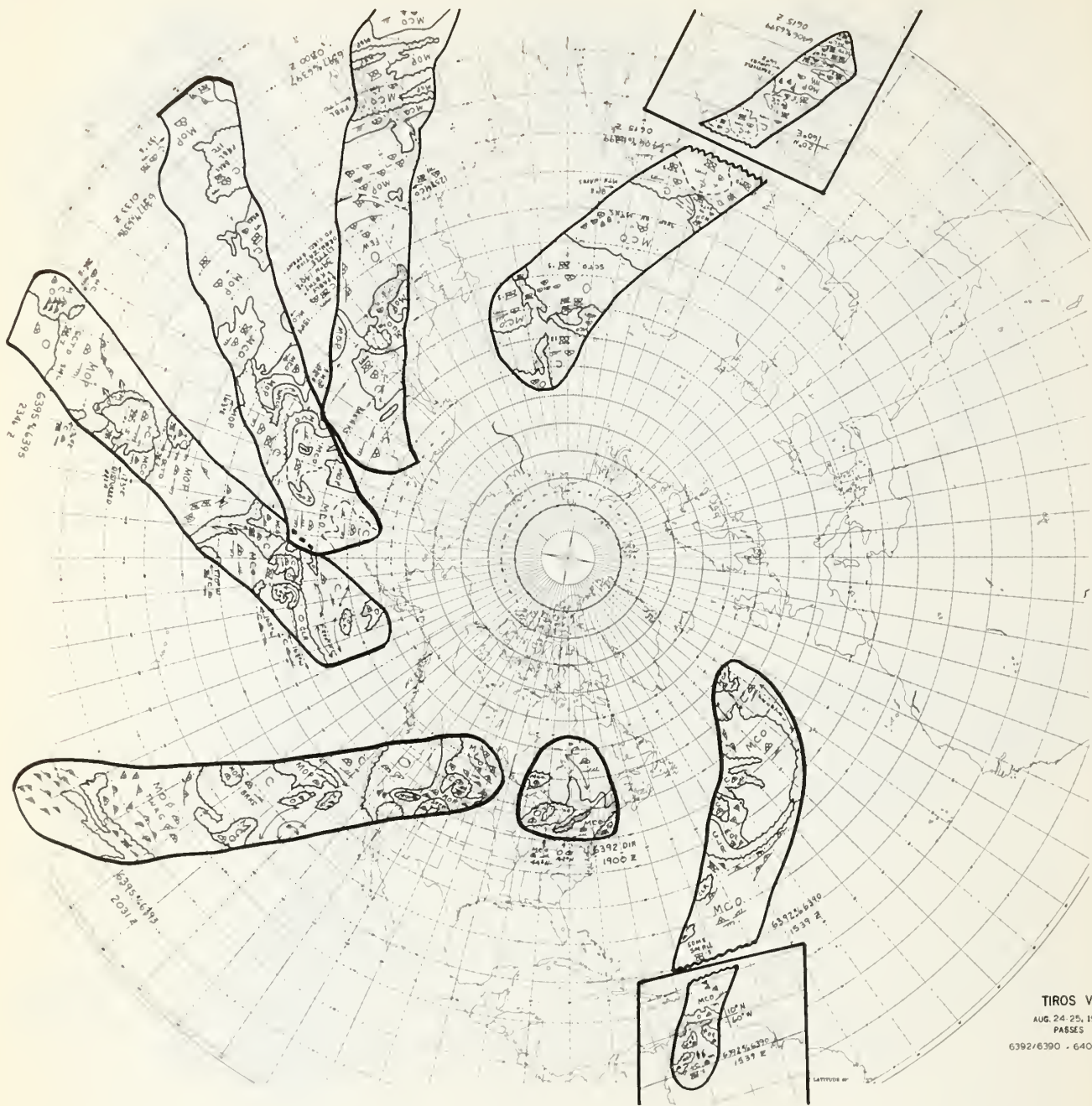


TIROS VII

AUG 22 1964

PASSE S

6361 6356 . 6363 6362

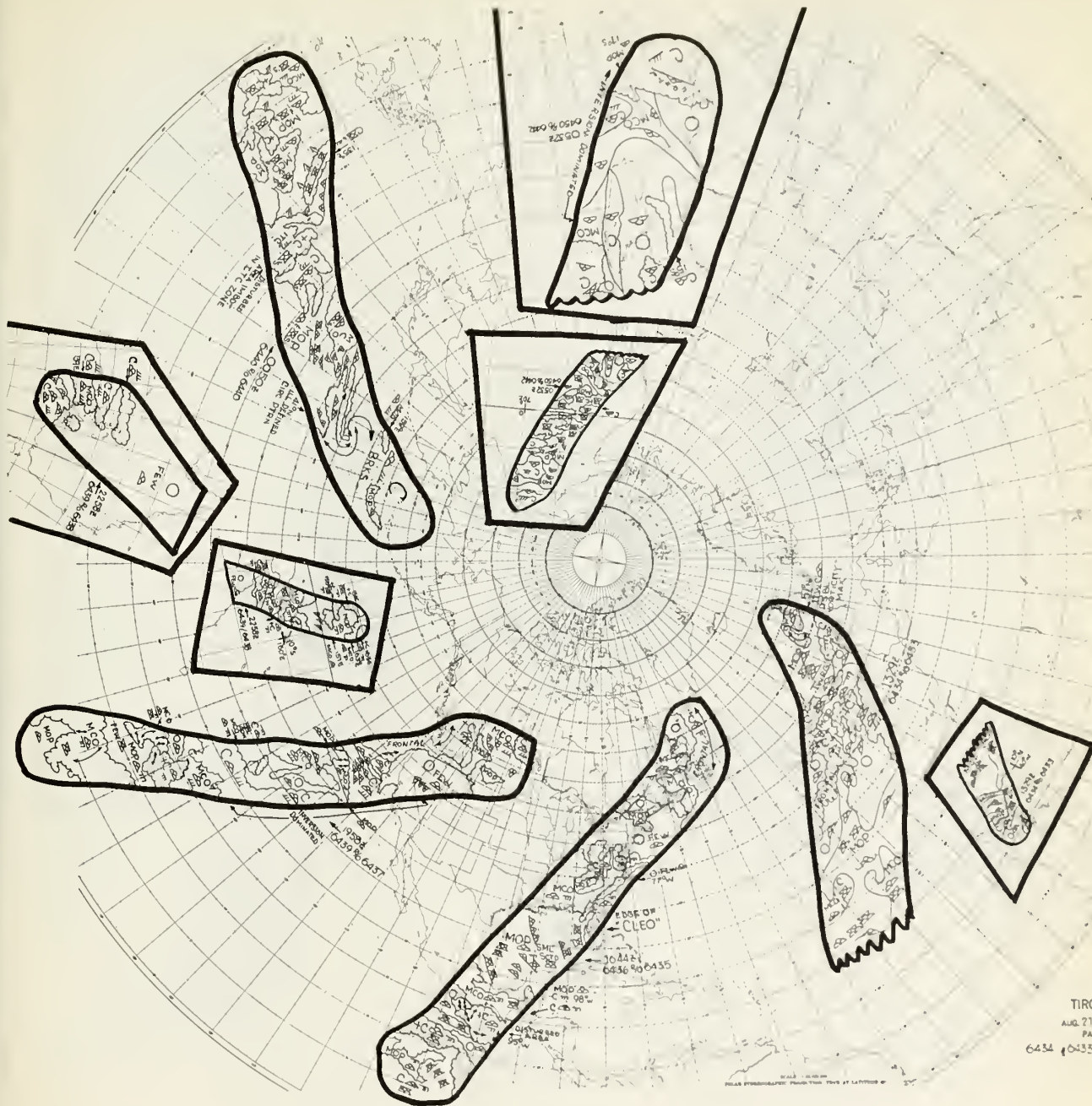


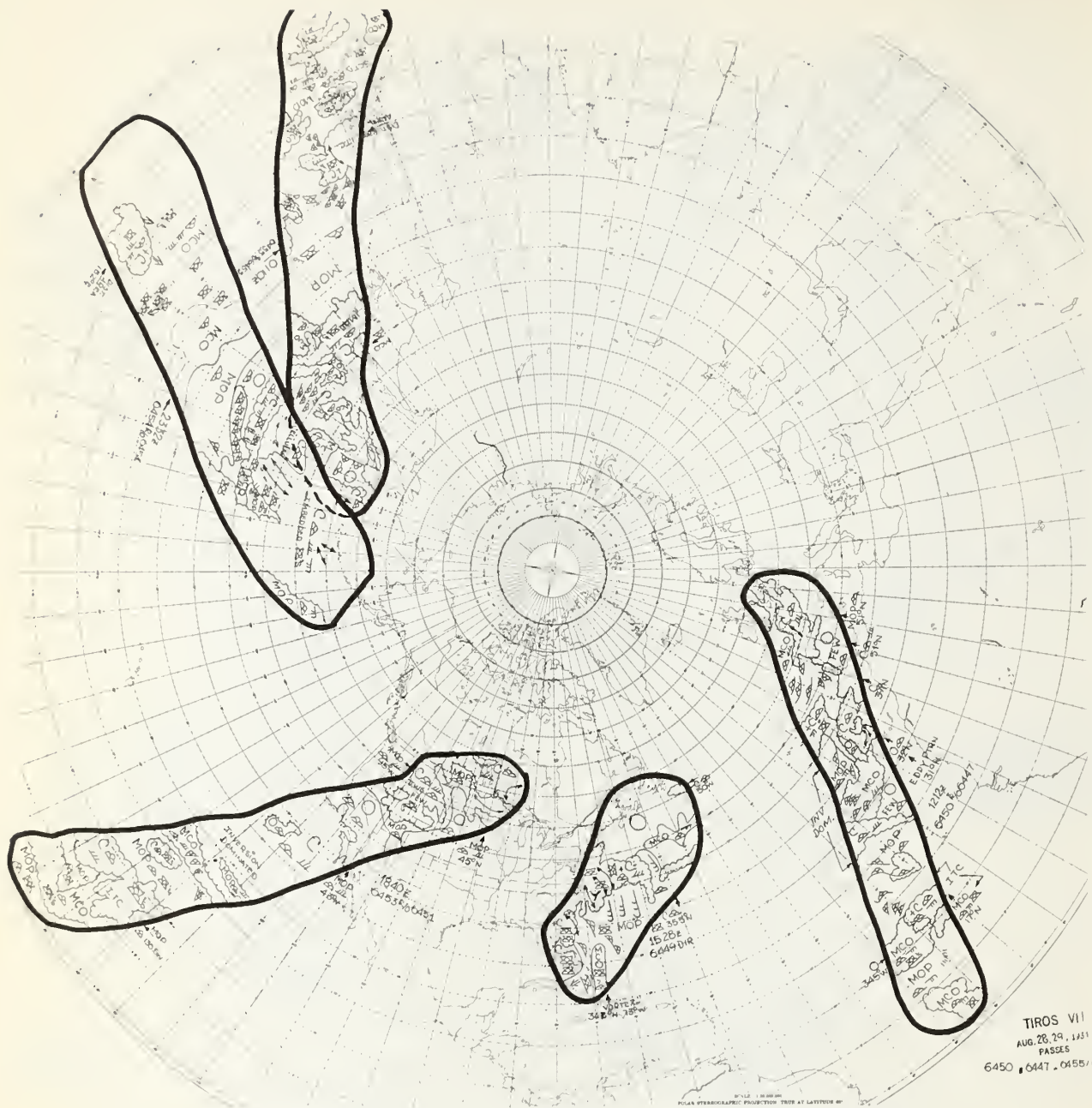
TIROS VII

AUG. 24, 25, 1964

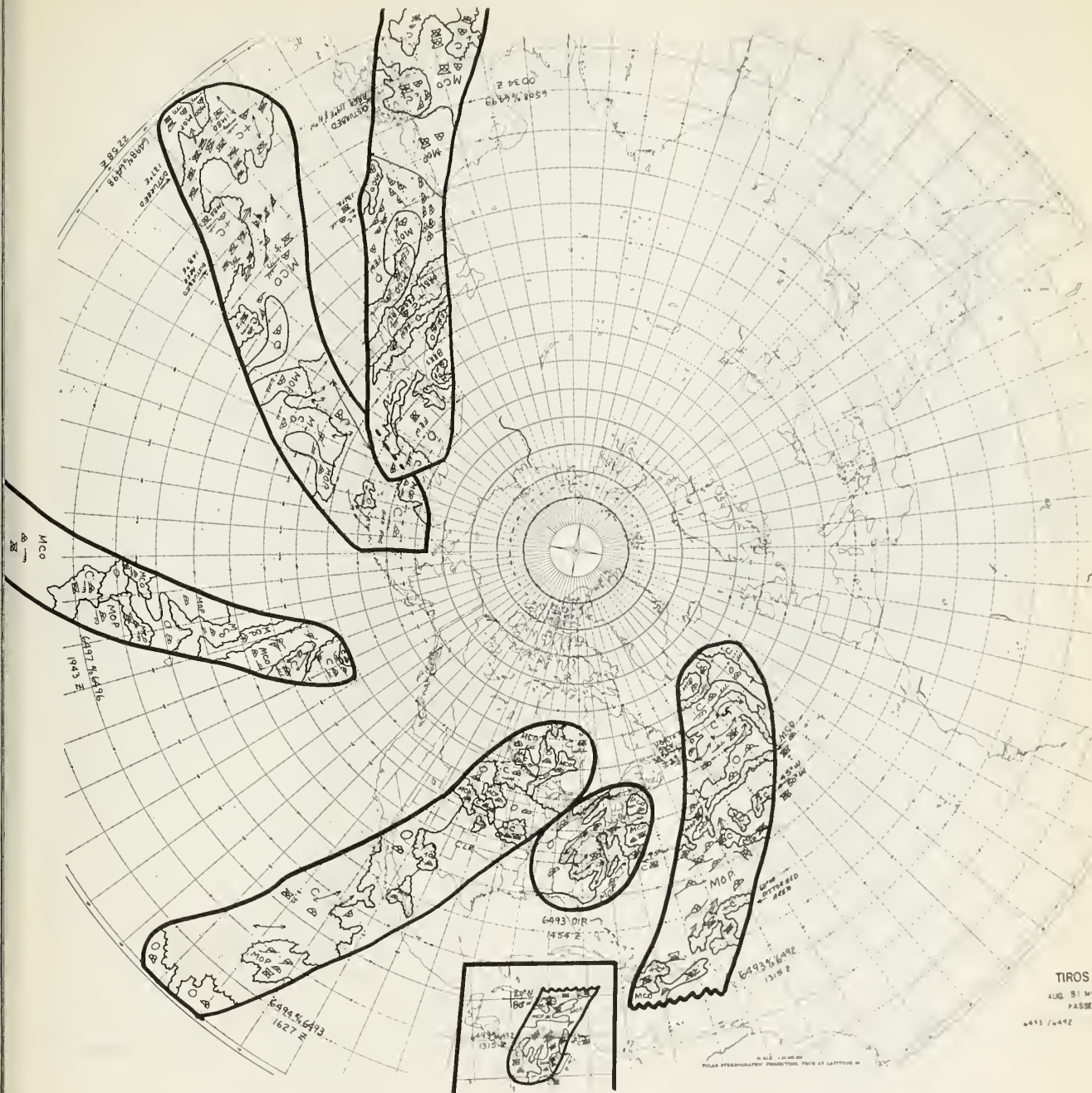
PASSES

6392/6390 . 6406/6399

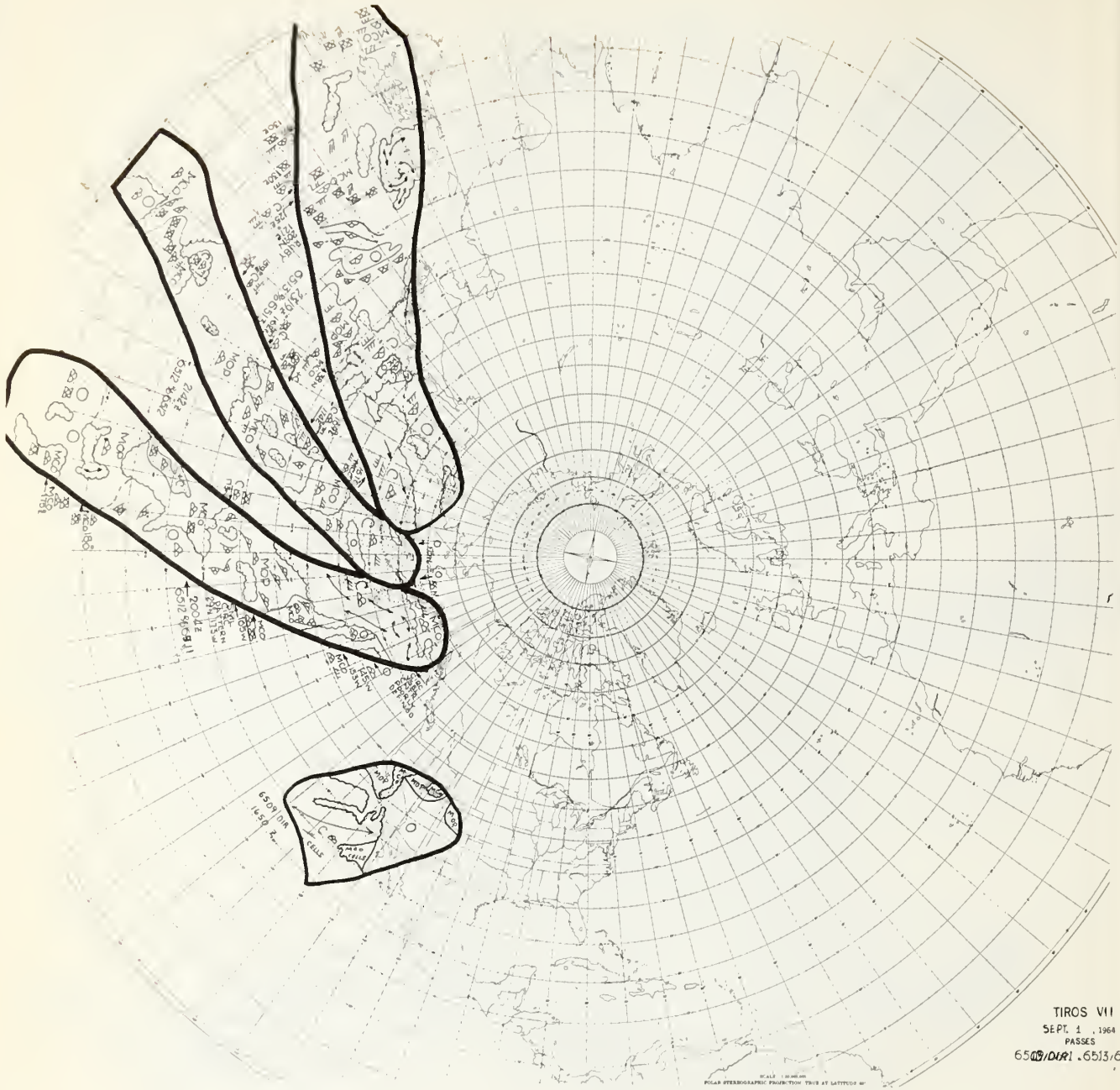




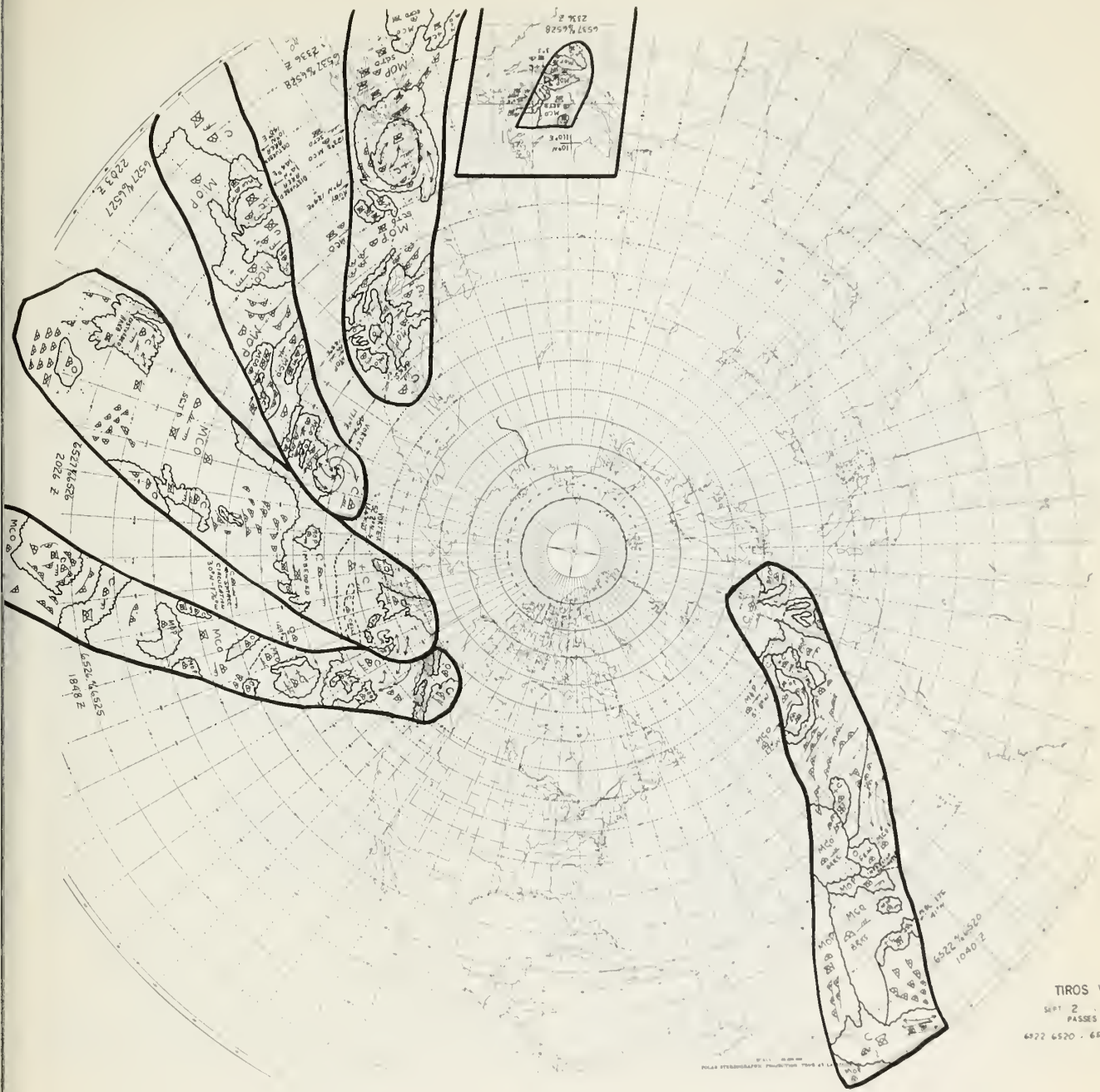
TIROS VII
AUG. 28, 29, 1951
PASSES
6450, 6447, 6455, 6455



TIROS VII
 AUG. 31 1964
 PAGES
 6493 1627 6500 6499



TIROS VII
SEPT. 4, 1964
PASSES
6509 DIR 16513/6513



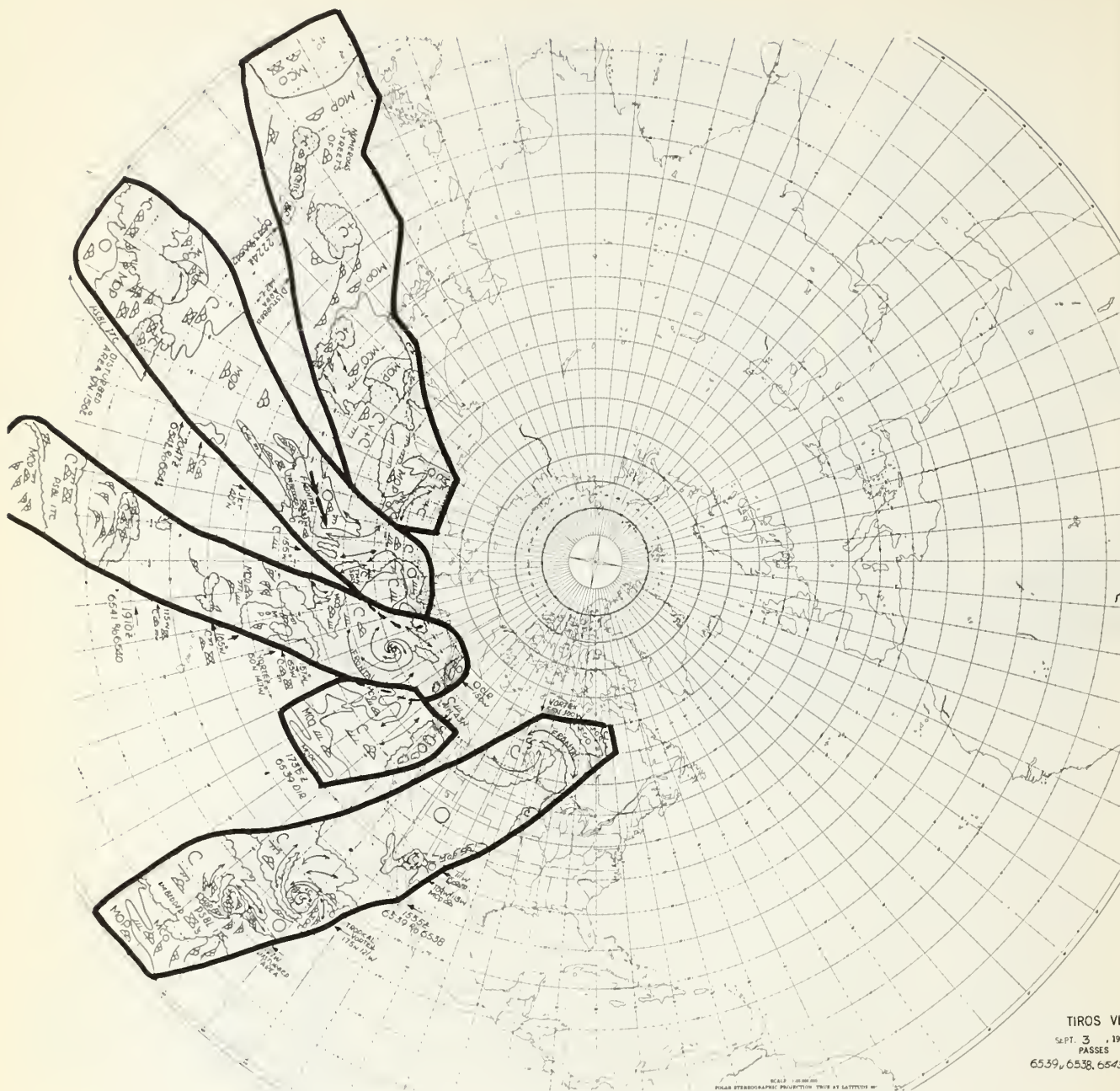
TIROS VII

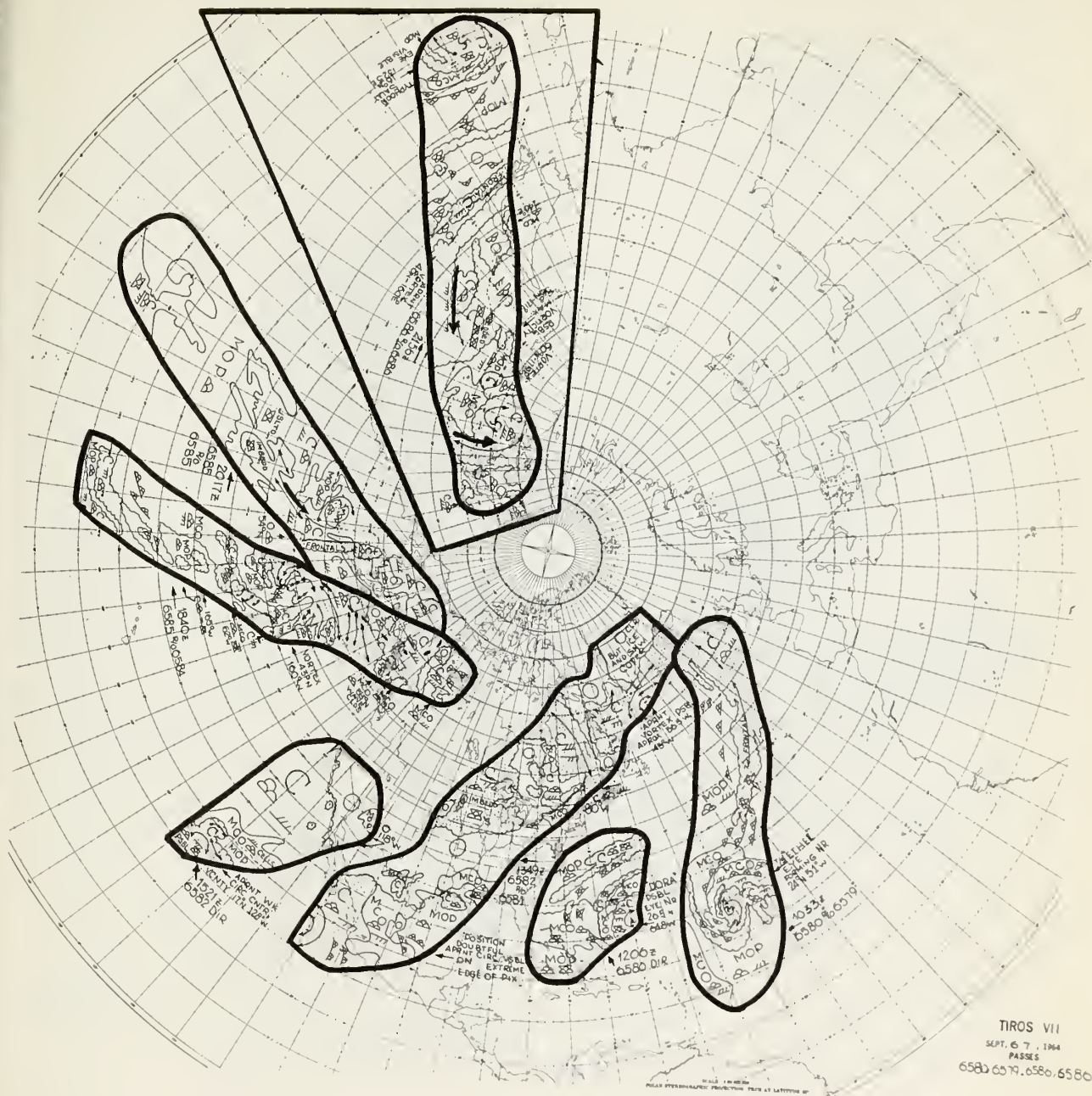
SEPT 2, 1964

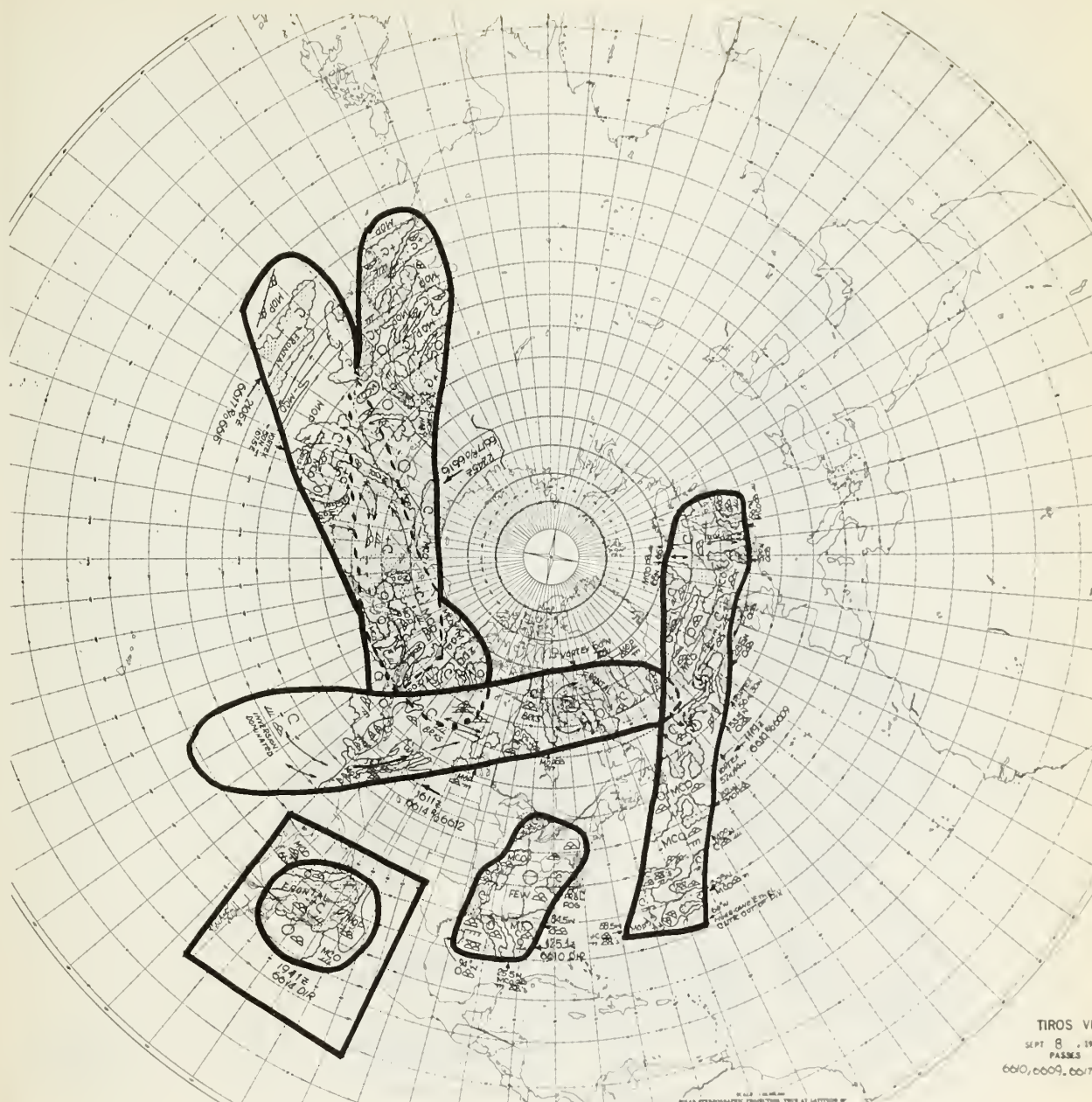
PASSES

6522 46520 - 6527 46528

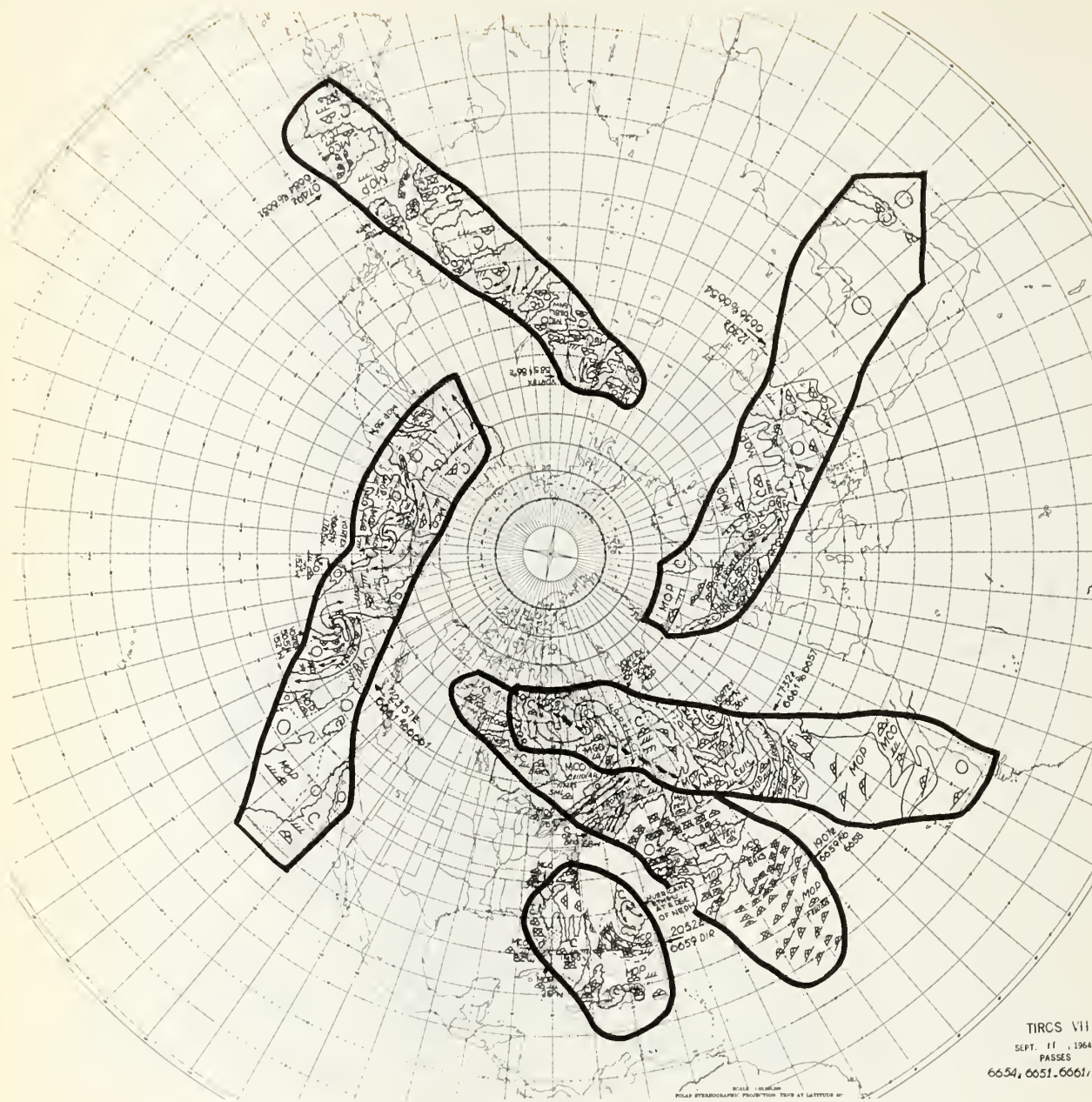
POLAR STEREOGRAPHIC PROJECTION TRUE 47°



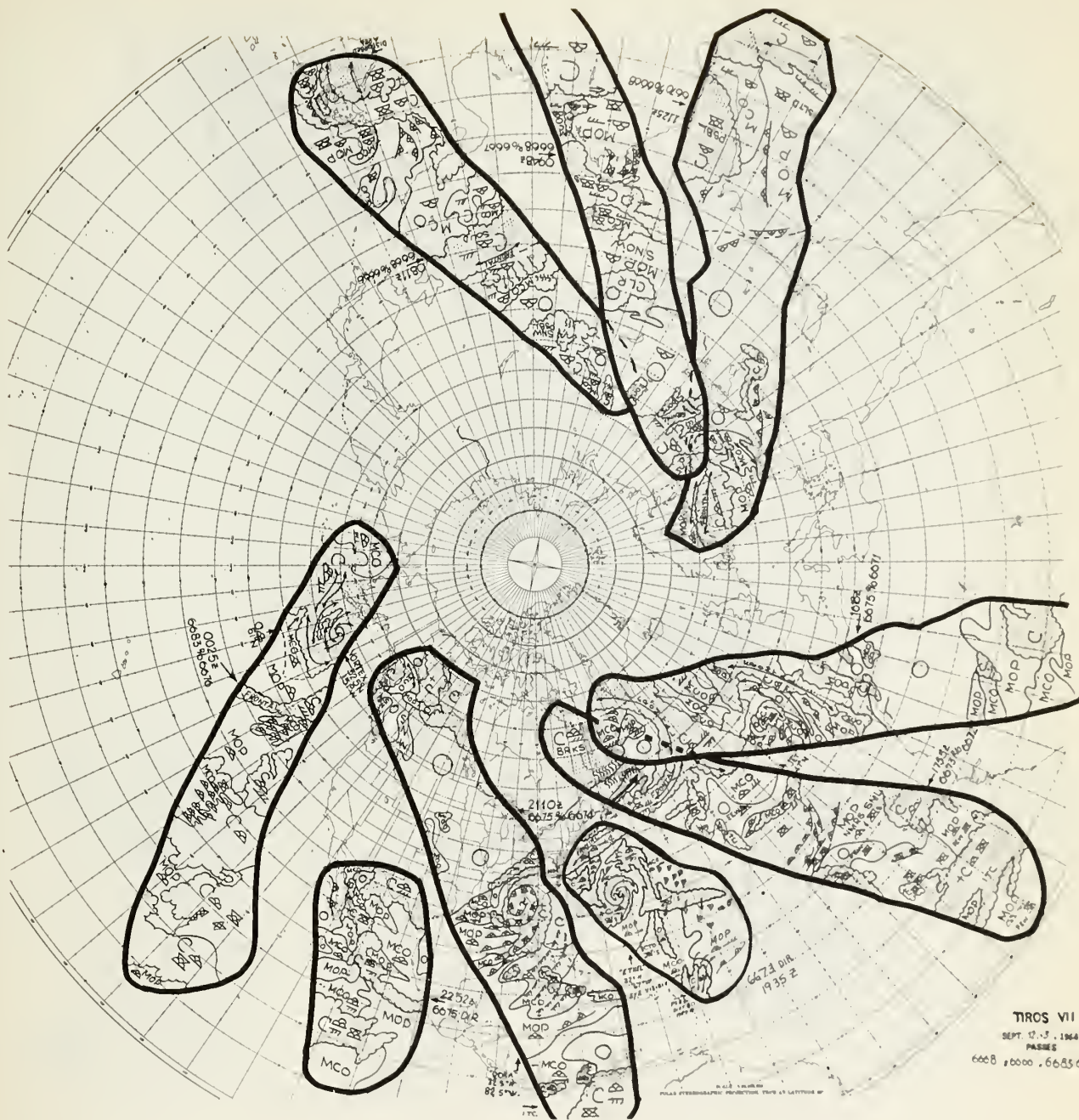




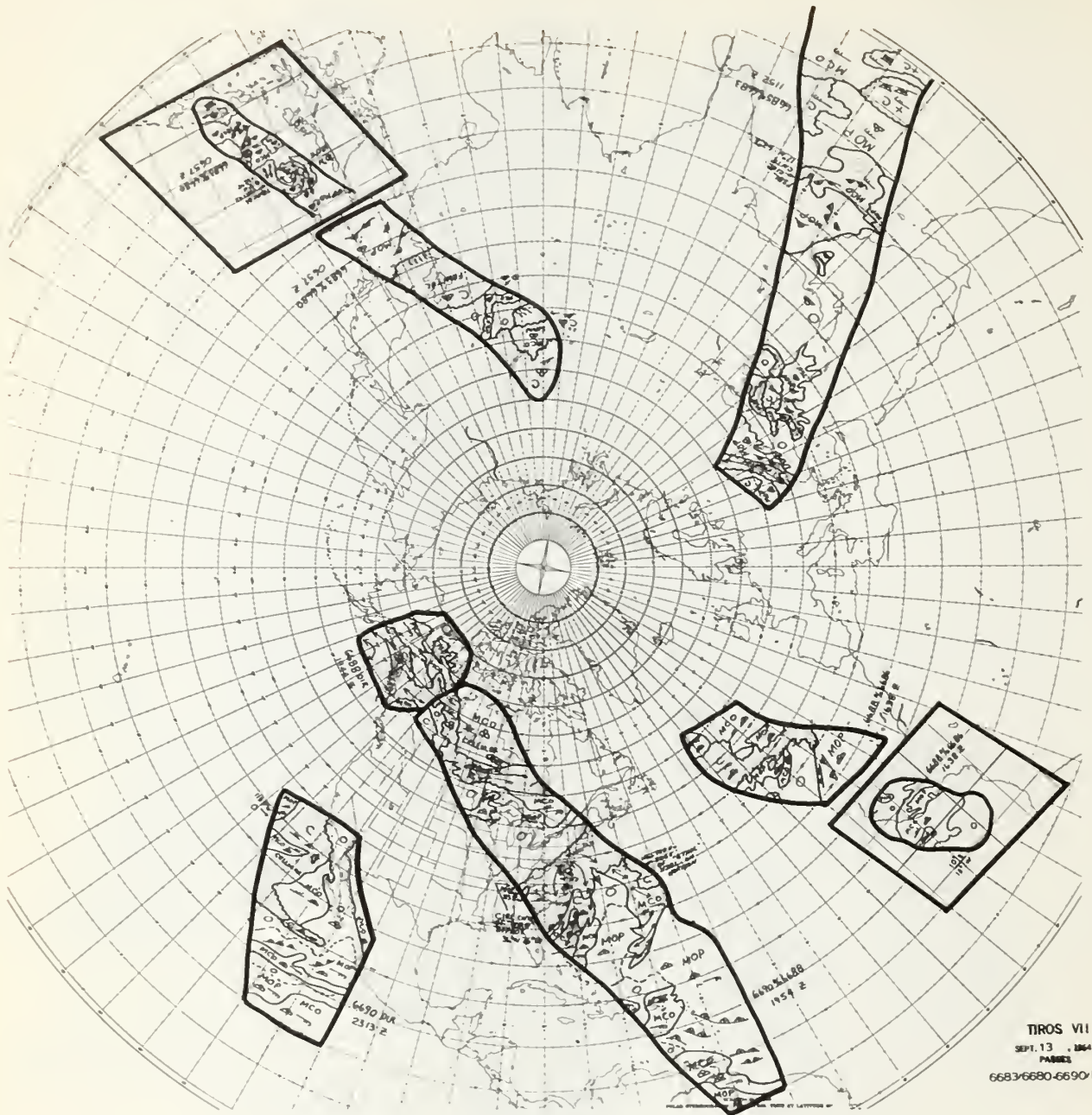
TIROS VII
SEPT 8, 1964
PASS 3
0010, 0009, 0017, 0010



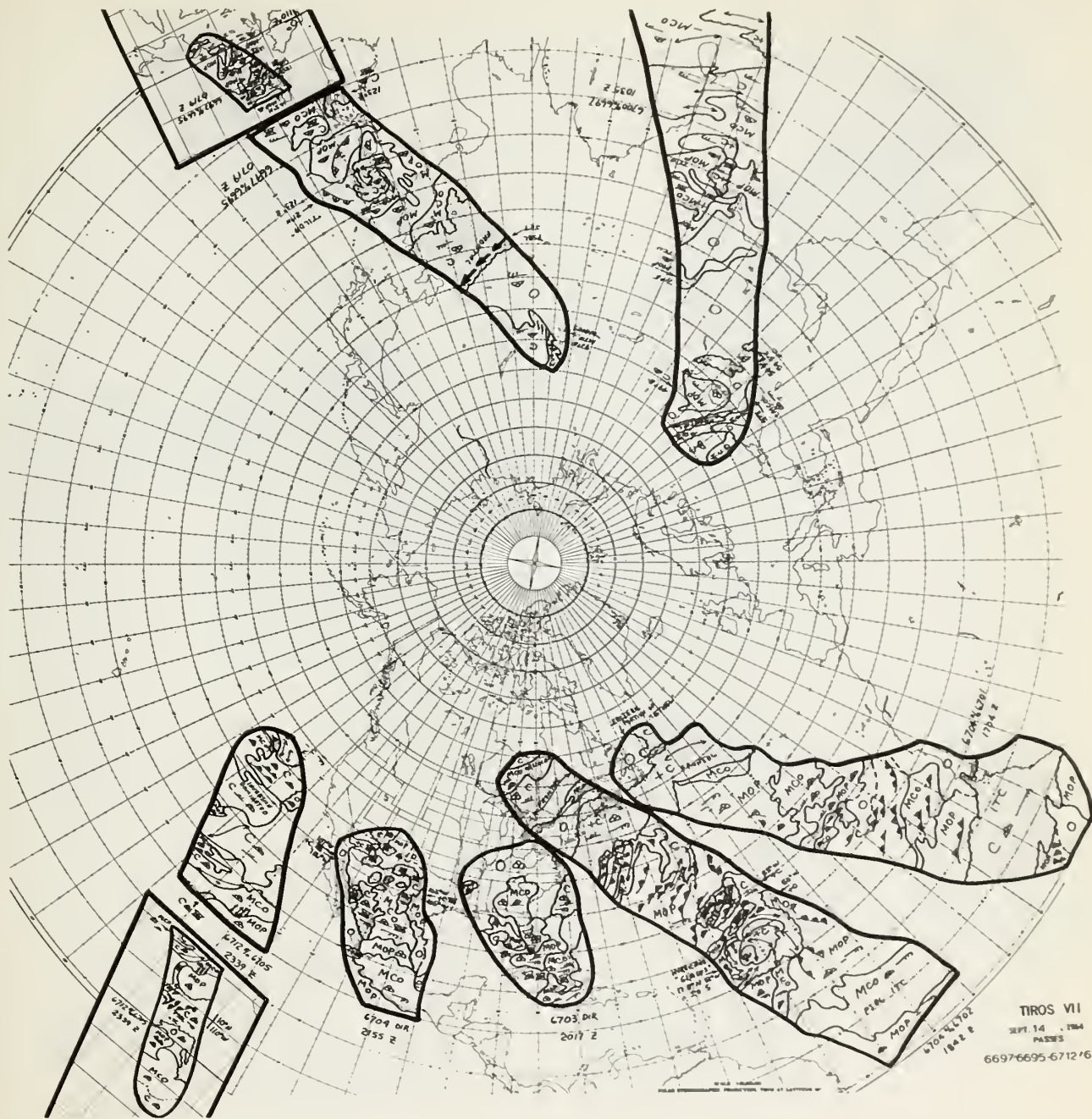
TIRCS VII
 SEPT. 11, 1964
 PASSES
 6654, 6651, 6661, 6661



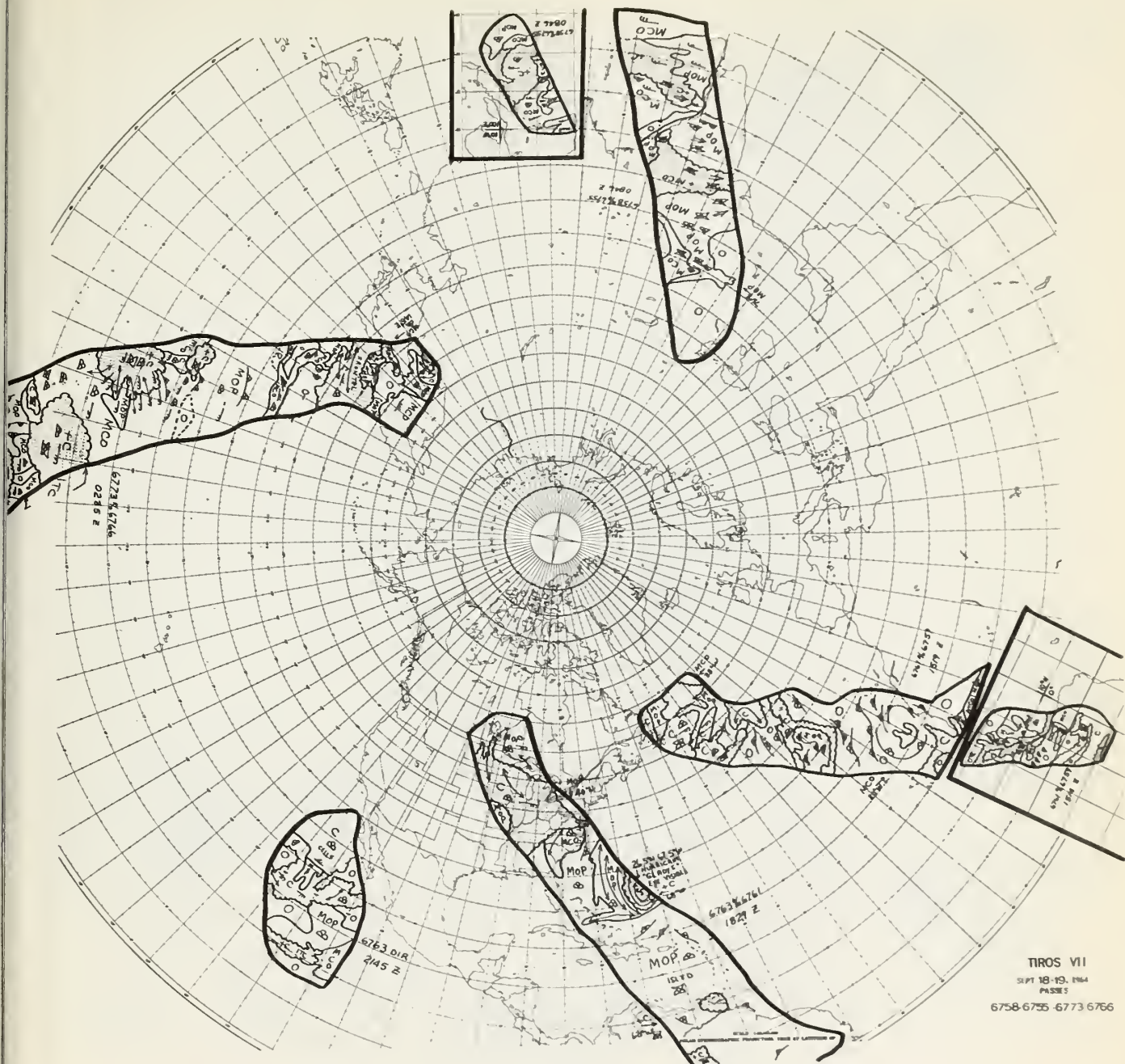
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 SEPT. 17.3. 1964
 PASSIES
 6608 6600 6605 6610



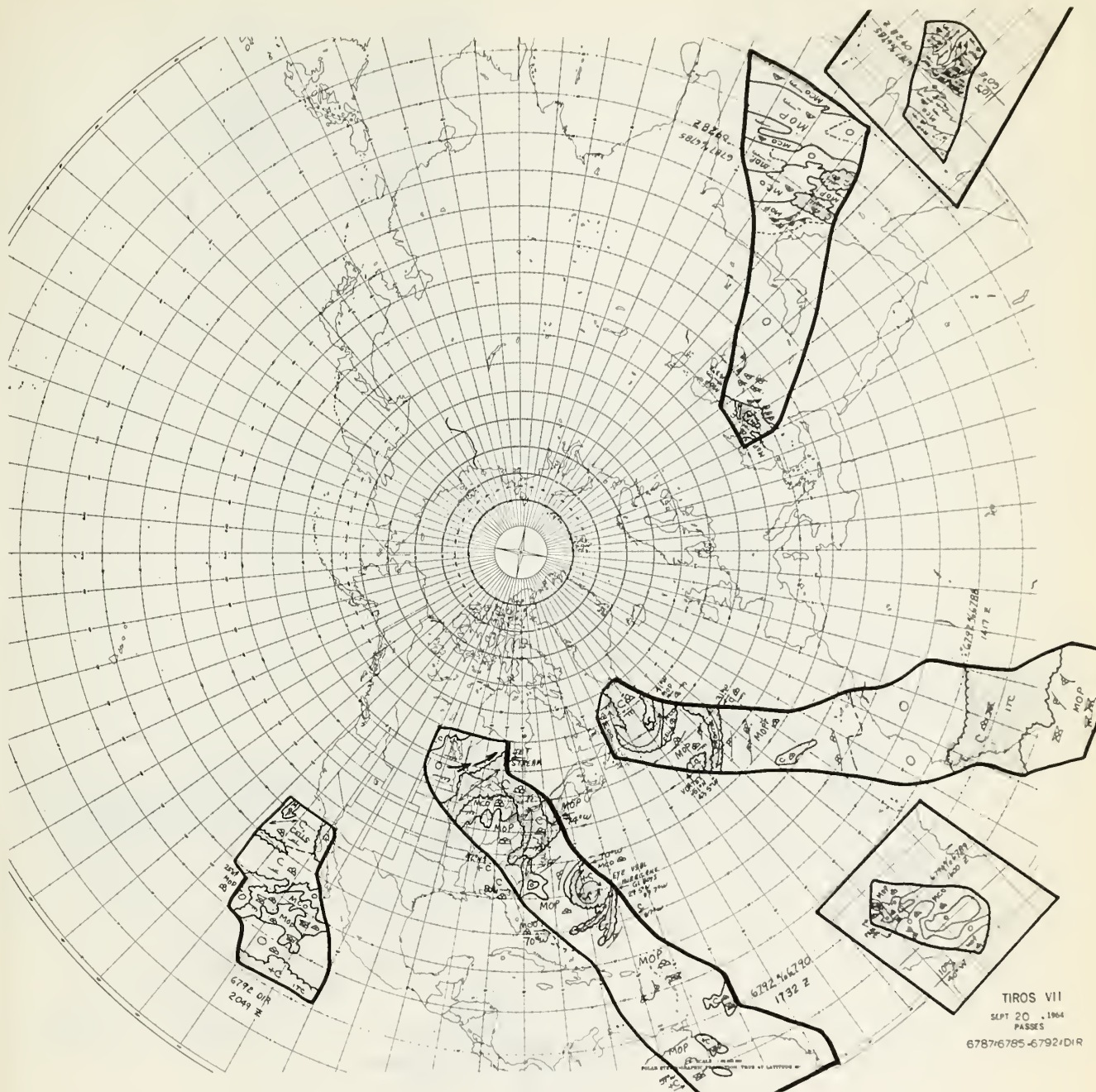
TIROS VII
 SEPT. 13, 1964
 PAGES 3
 6683/6688-6690/DIR

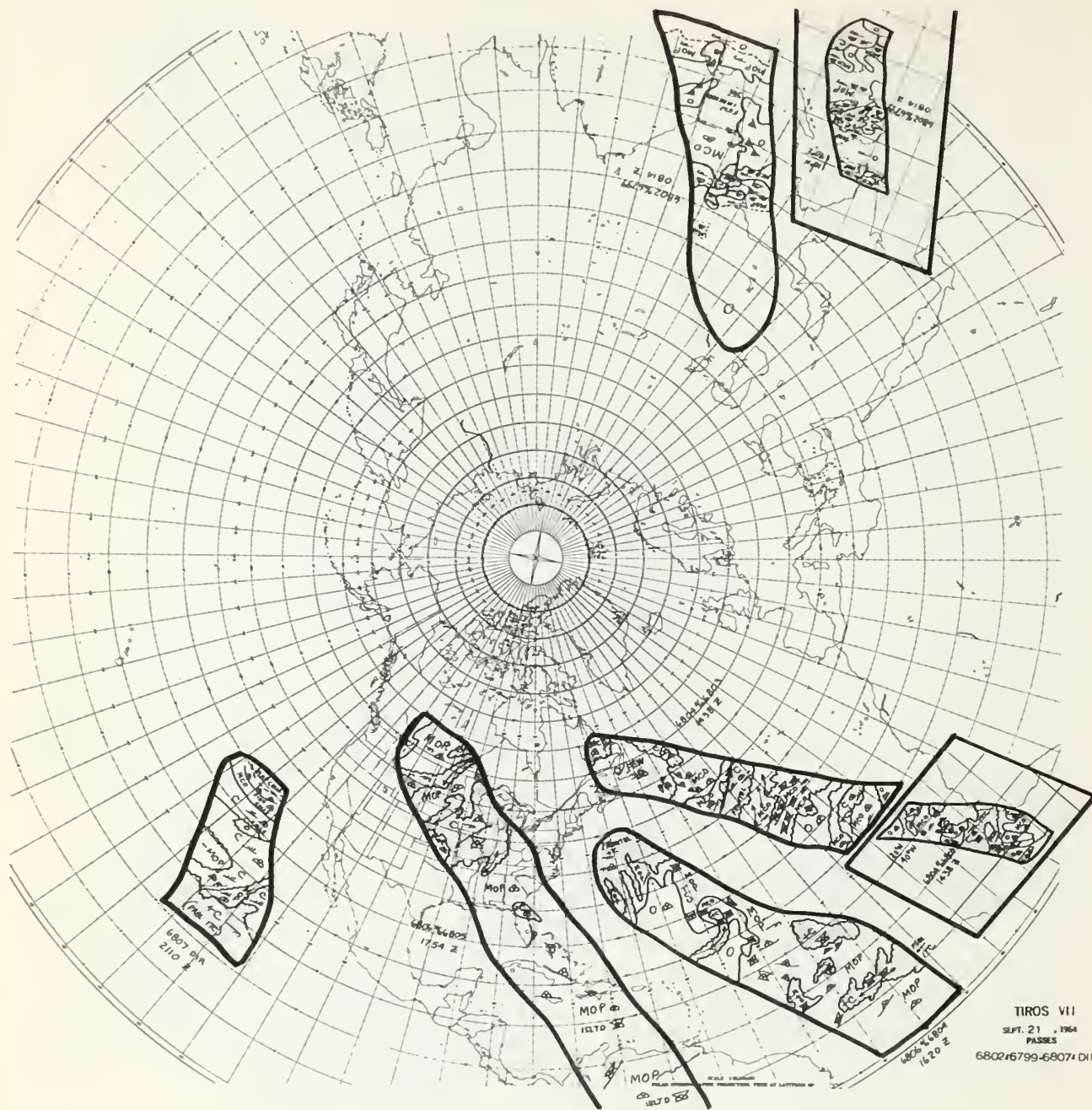


TIROS VII
 SEPT. 14 - 1964
 PAGE 5
 66976695-6712/6705

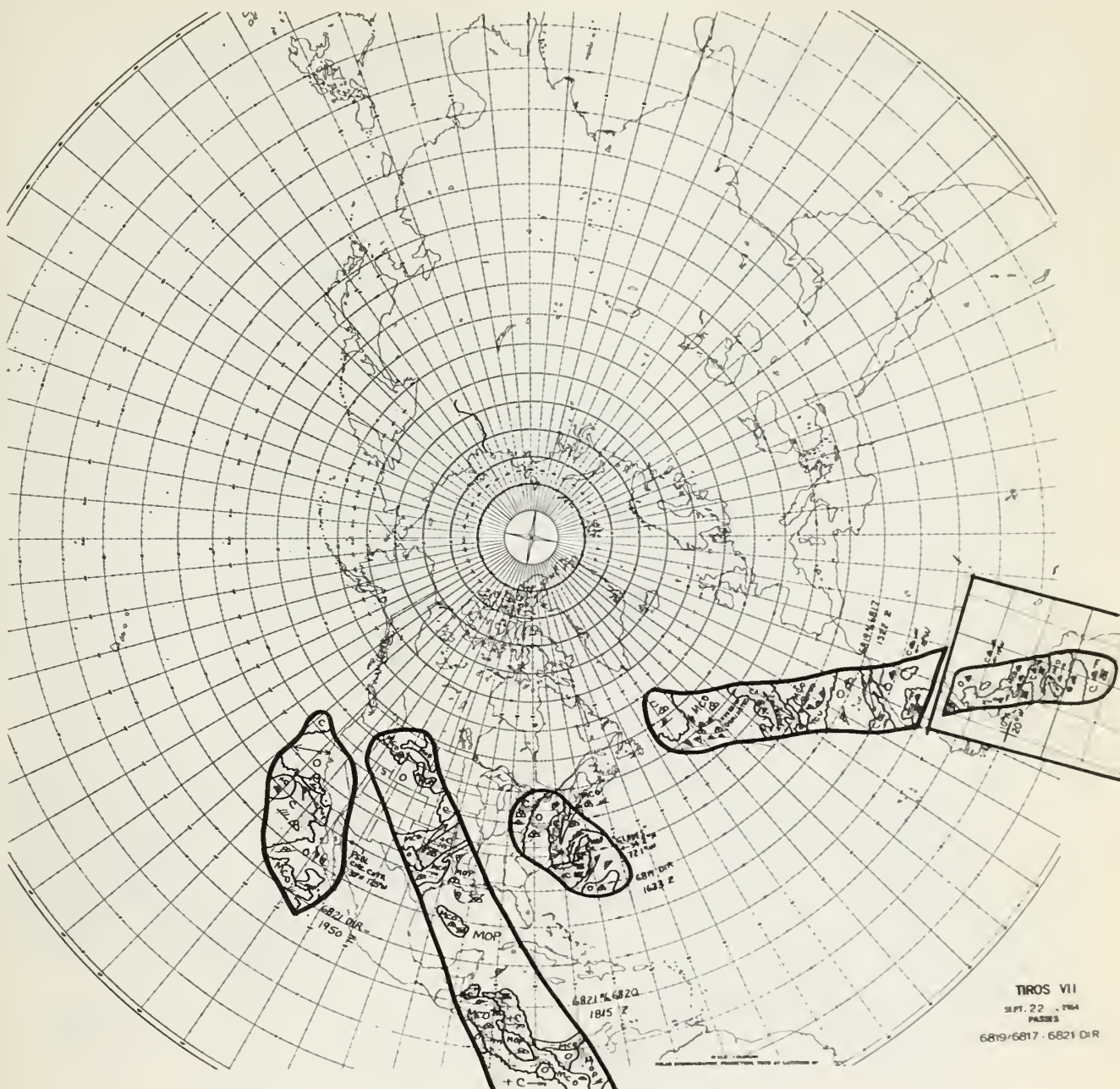


TIROS VII
SEPT 18-19, 1964
PAGE 5
6758-6755-6773-6766

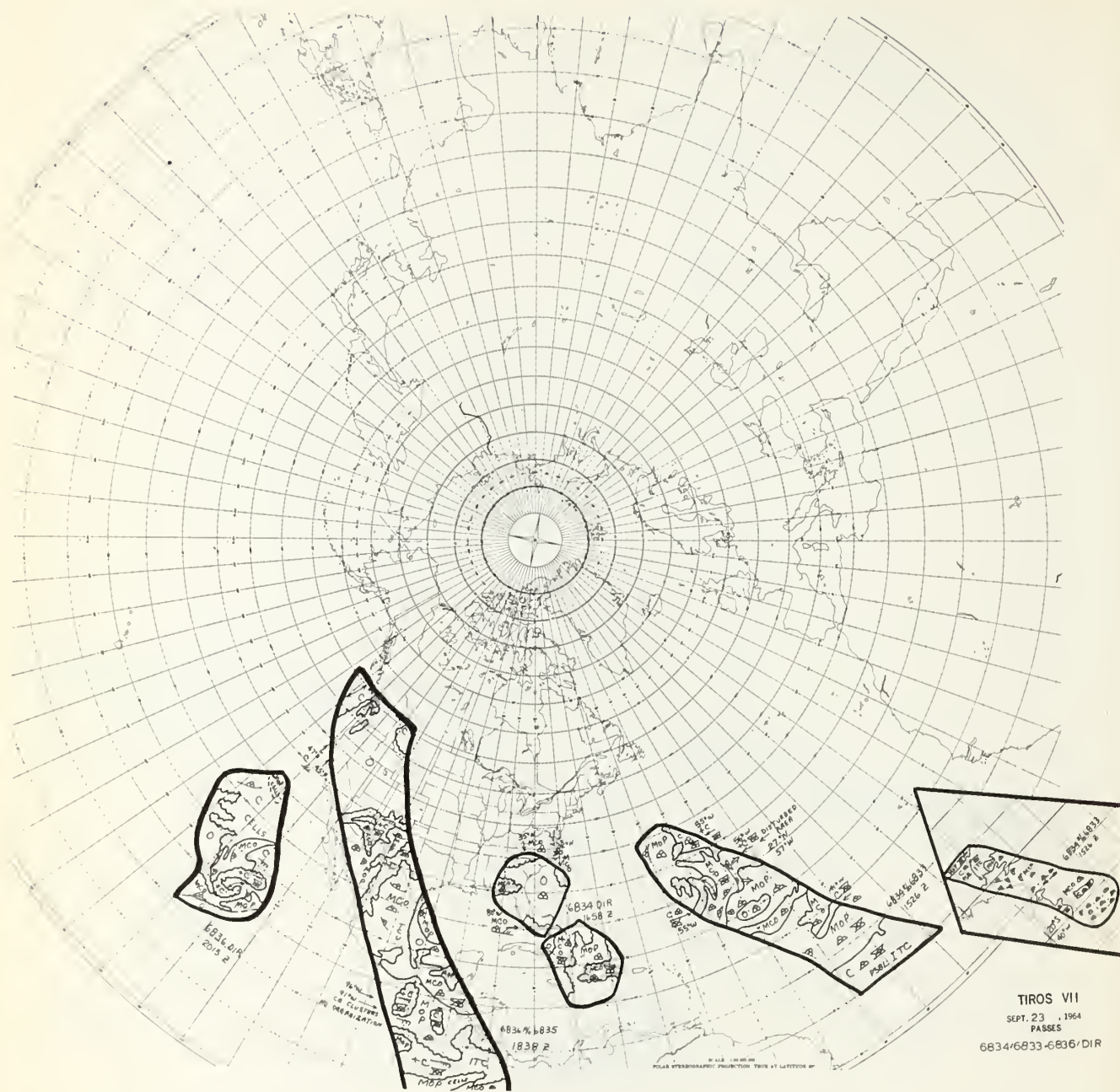




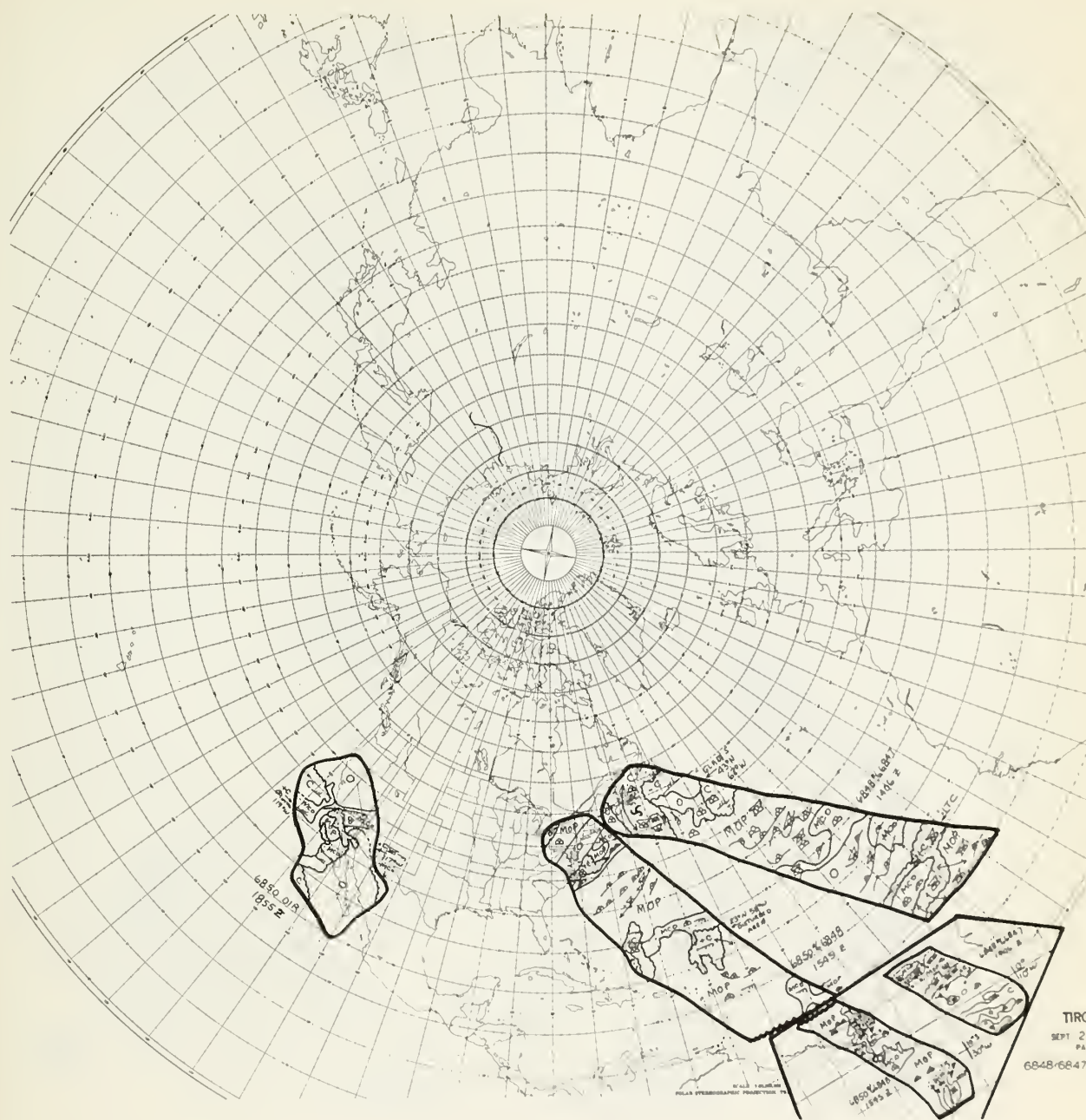
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SEPT. 21, 1964
PASSES
6802+6799-6807+ DIR



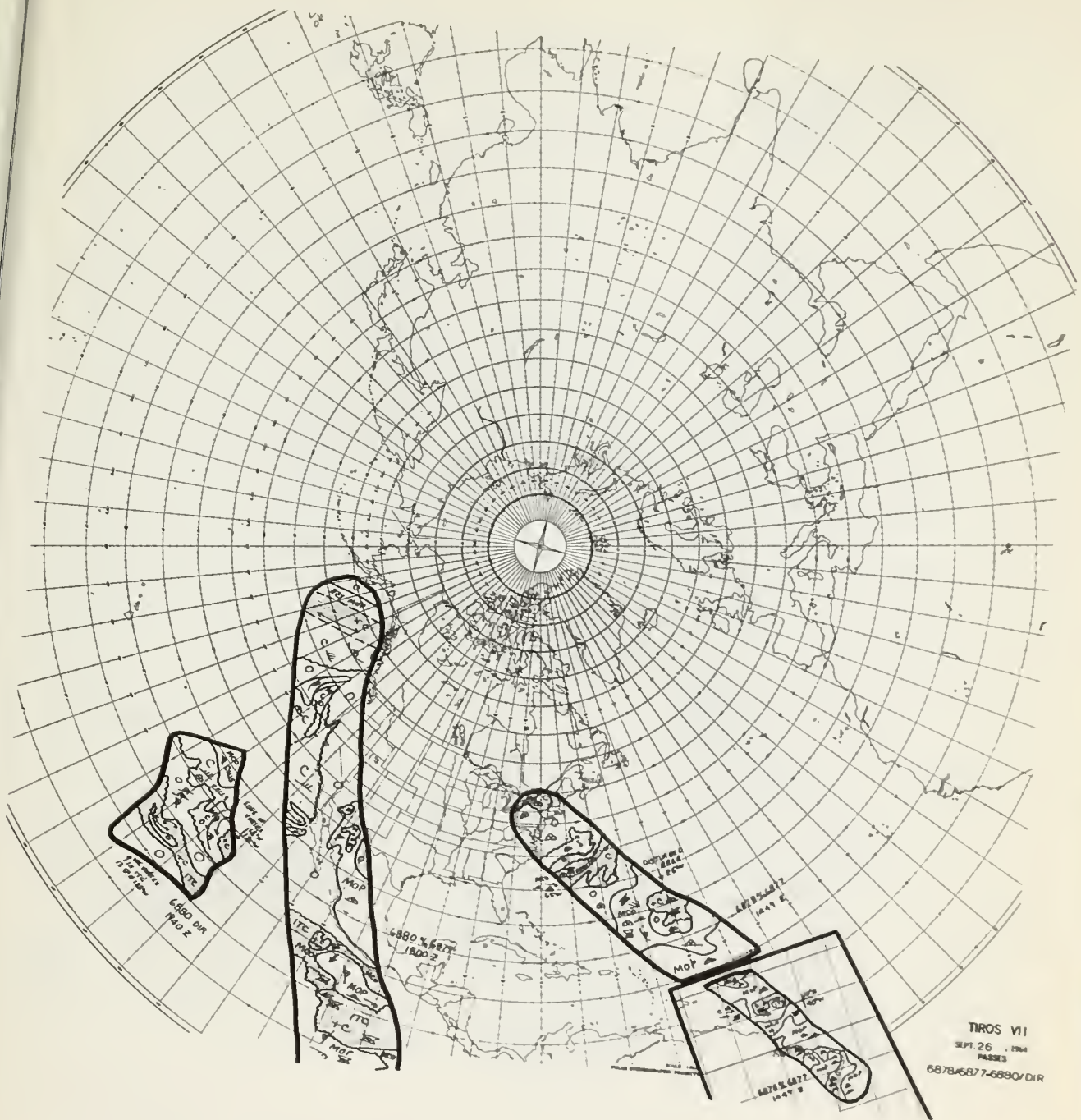
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SEPT. 22, 1964
PAGES
6819/6817 - 6821 DIR



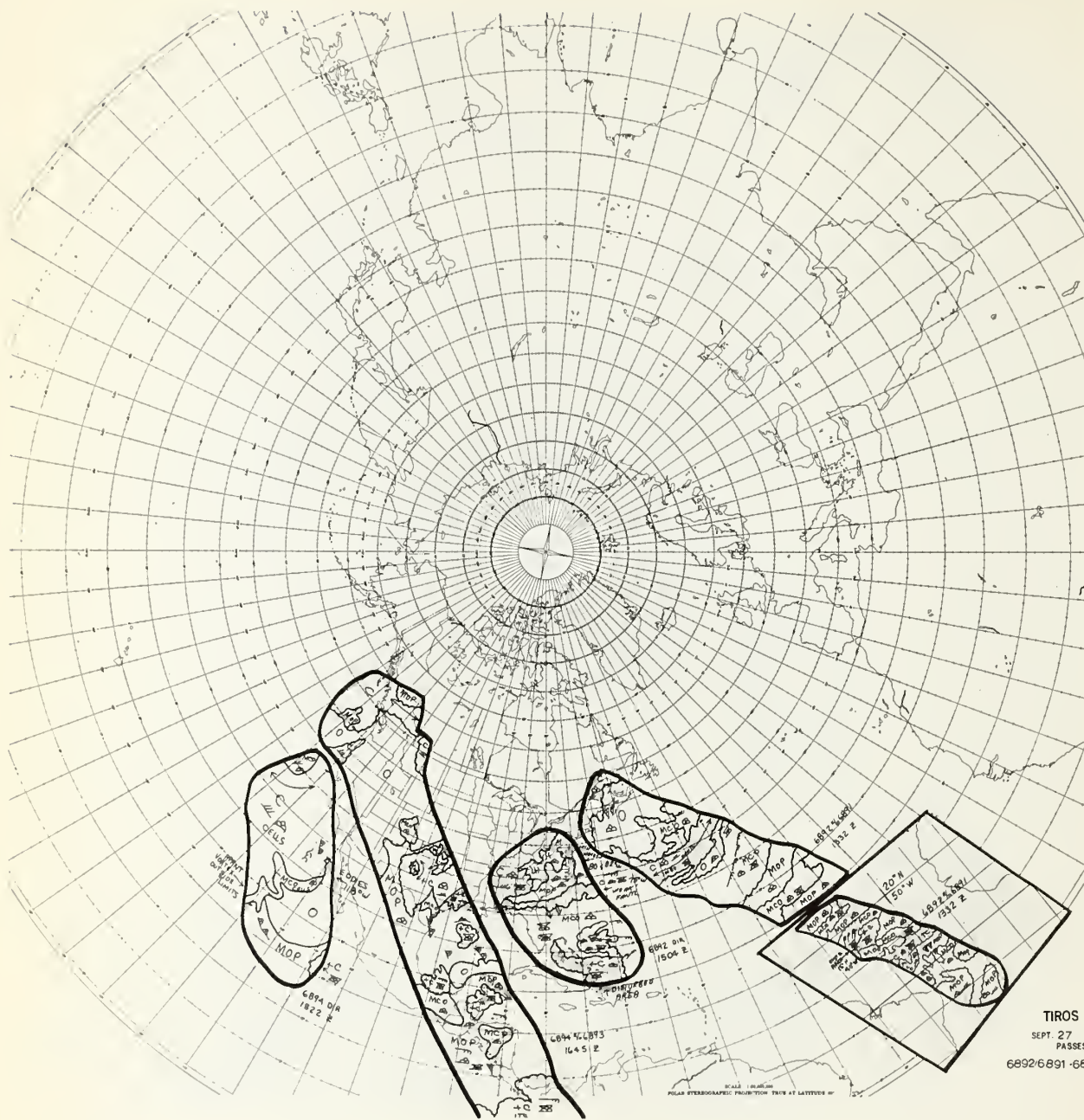
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SEPT. 23 , 1964
PASSES
6834/6833-6836/DIR



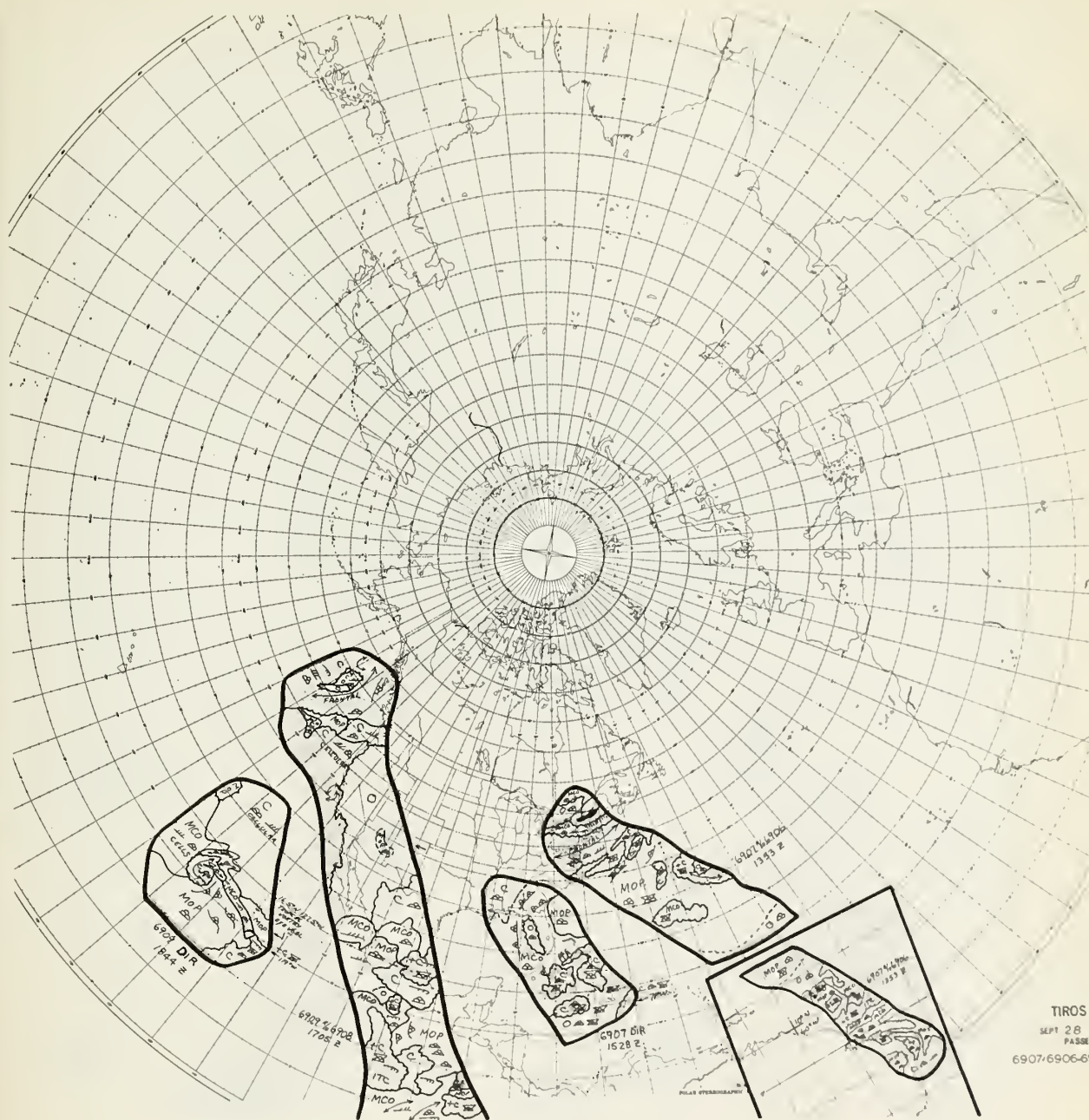
TIROS VII
 SEPT 24, 1964
 PAGE 8
 6848-6847-6850 DIR



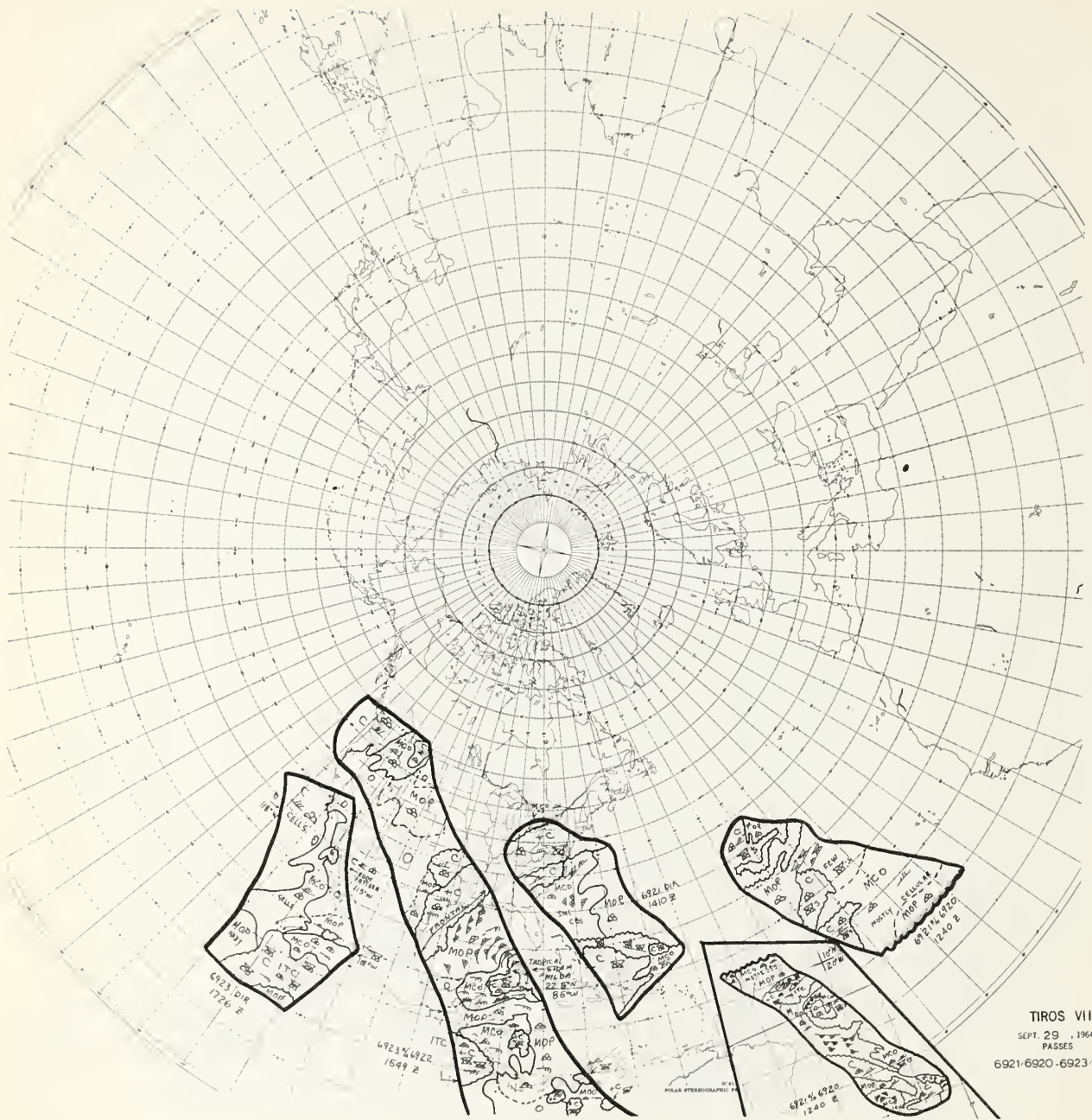
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SEPT 26, 1964
PASSES
6878/6877-6880/DIR



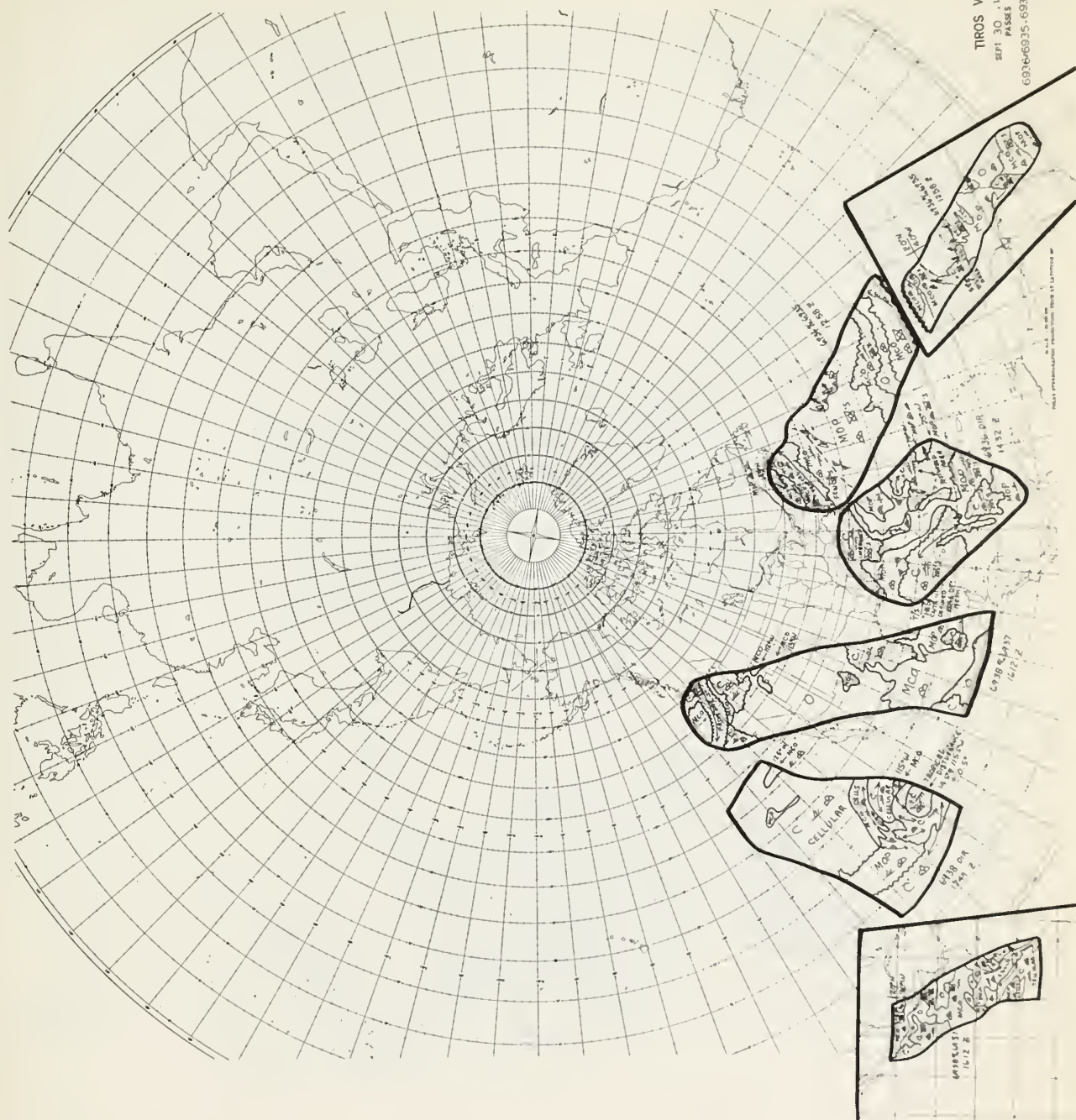
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SEPT. 27, 1964
PASSES
6892/6891-6894/DIR

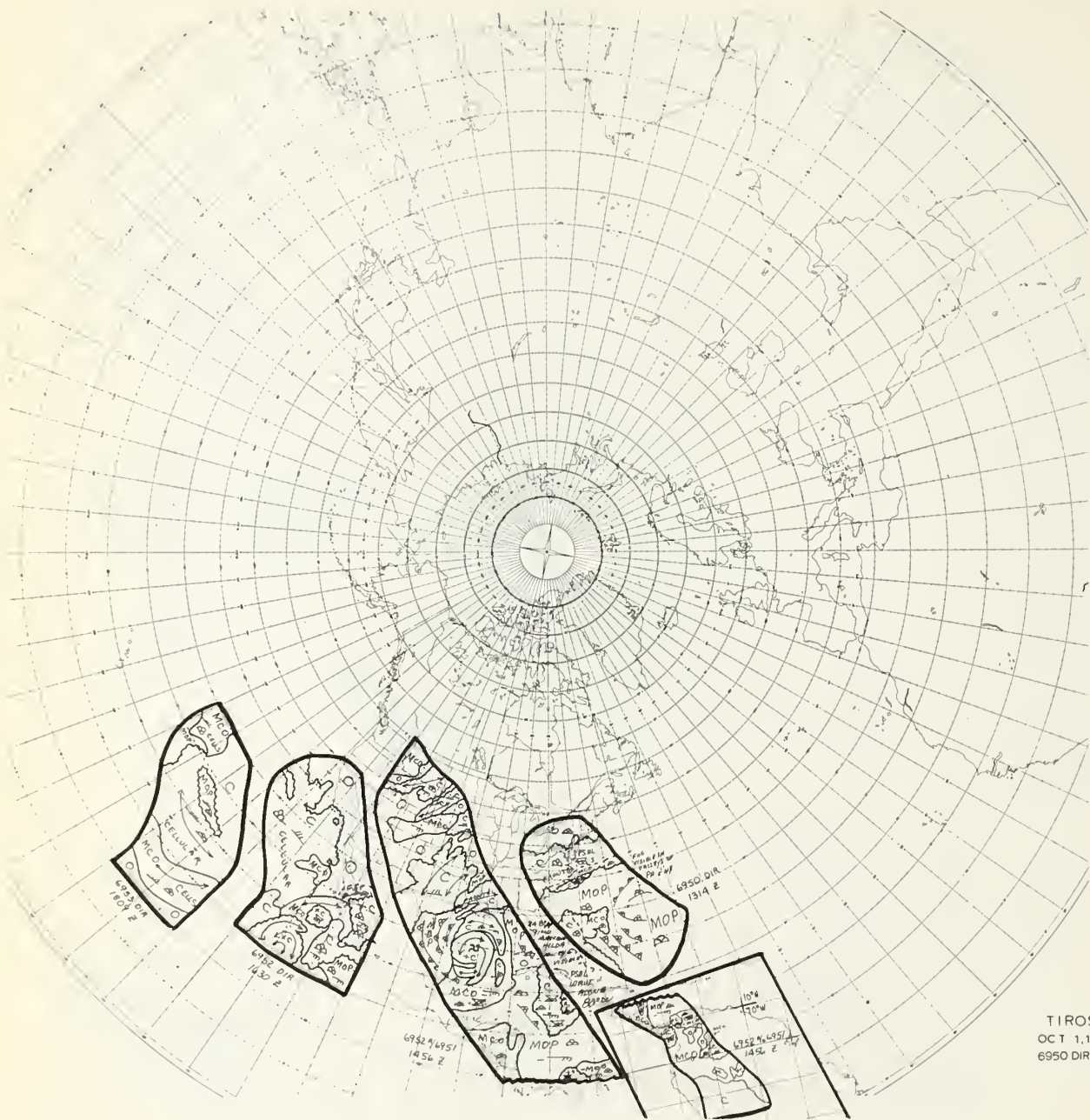


TIROS VII
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 PAGE 5
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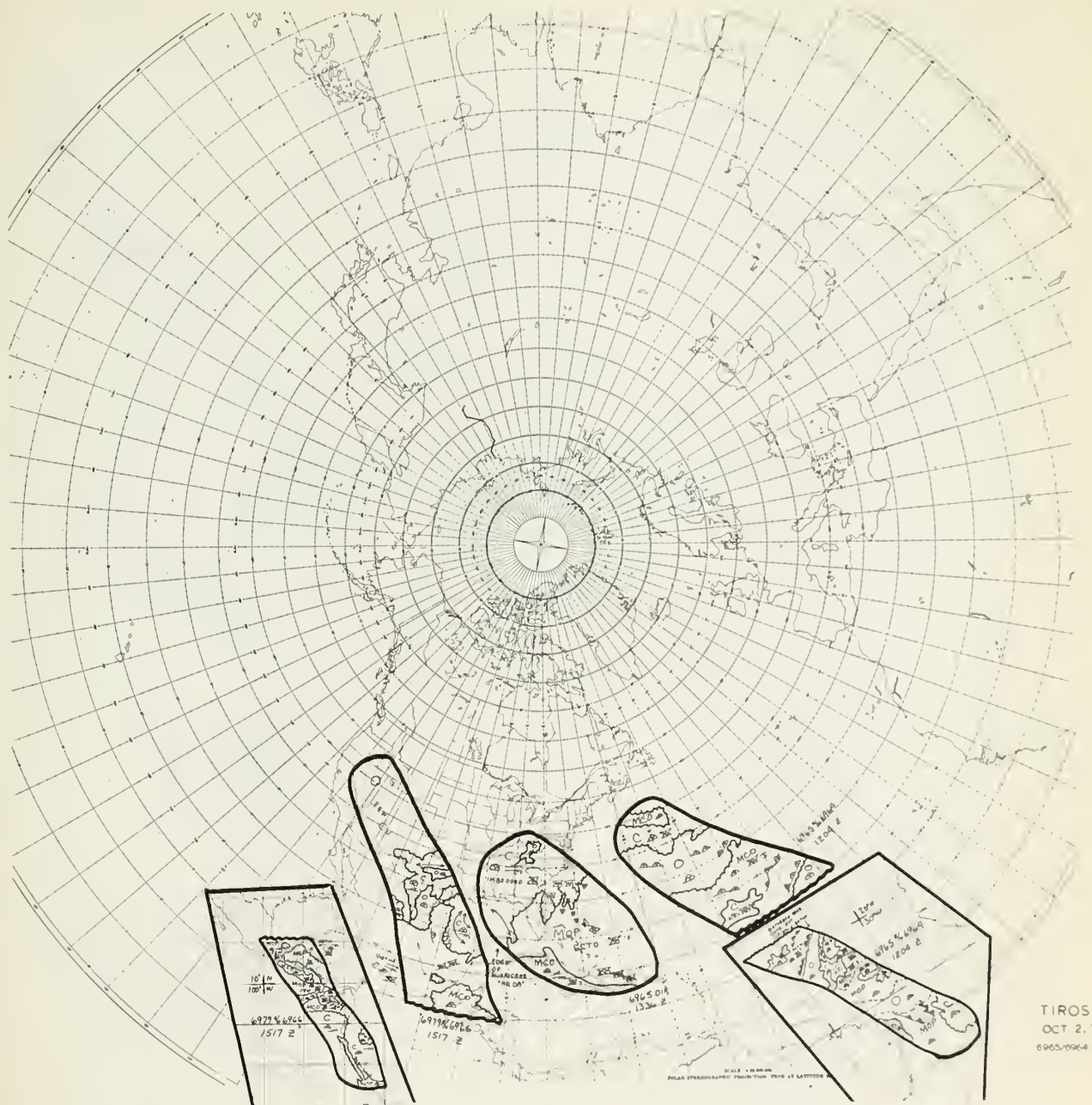


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SEP1 30 . 1964
PASSE
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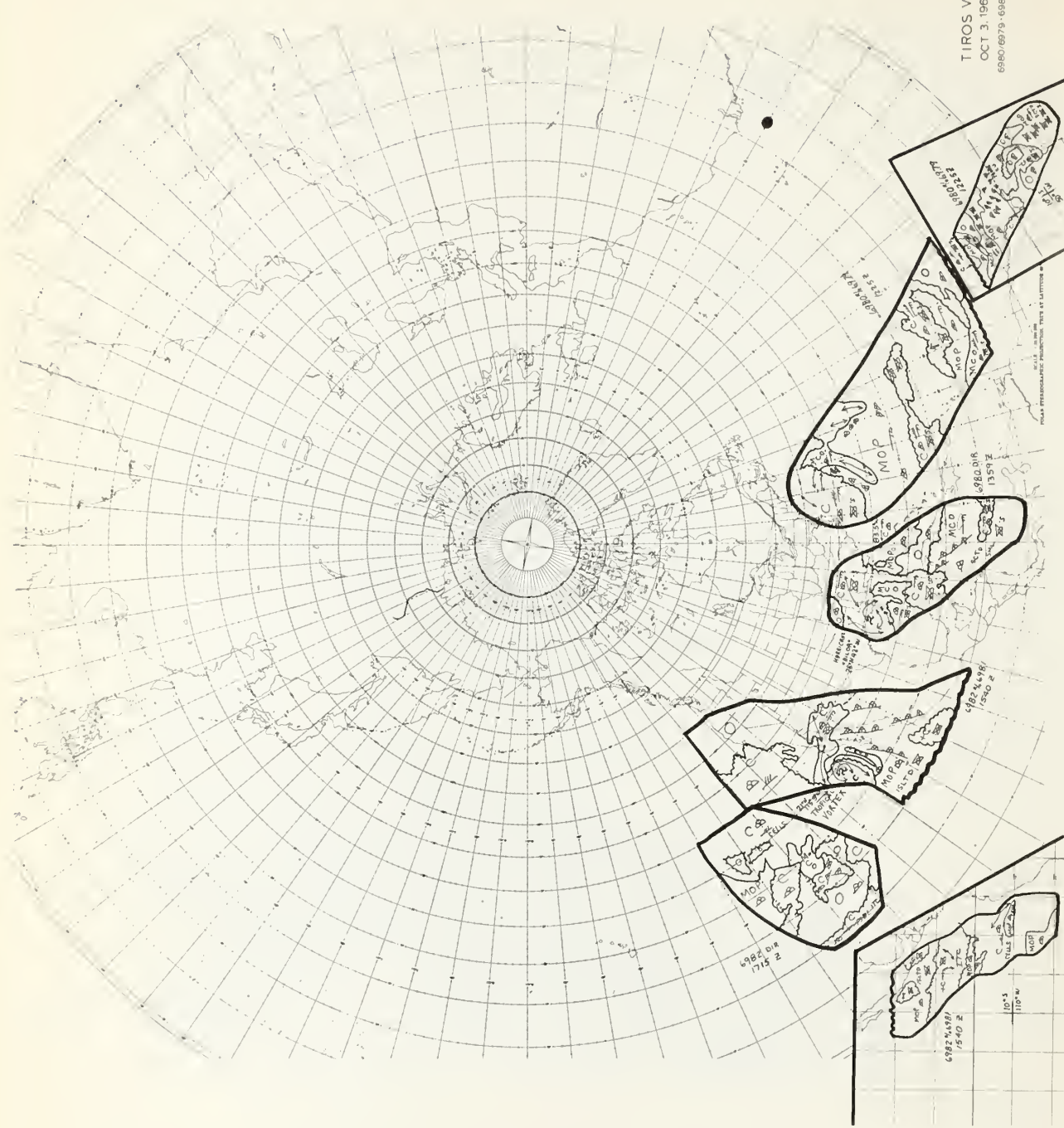


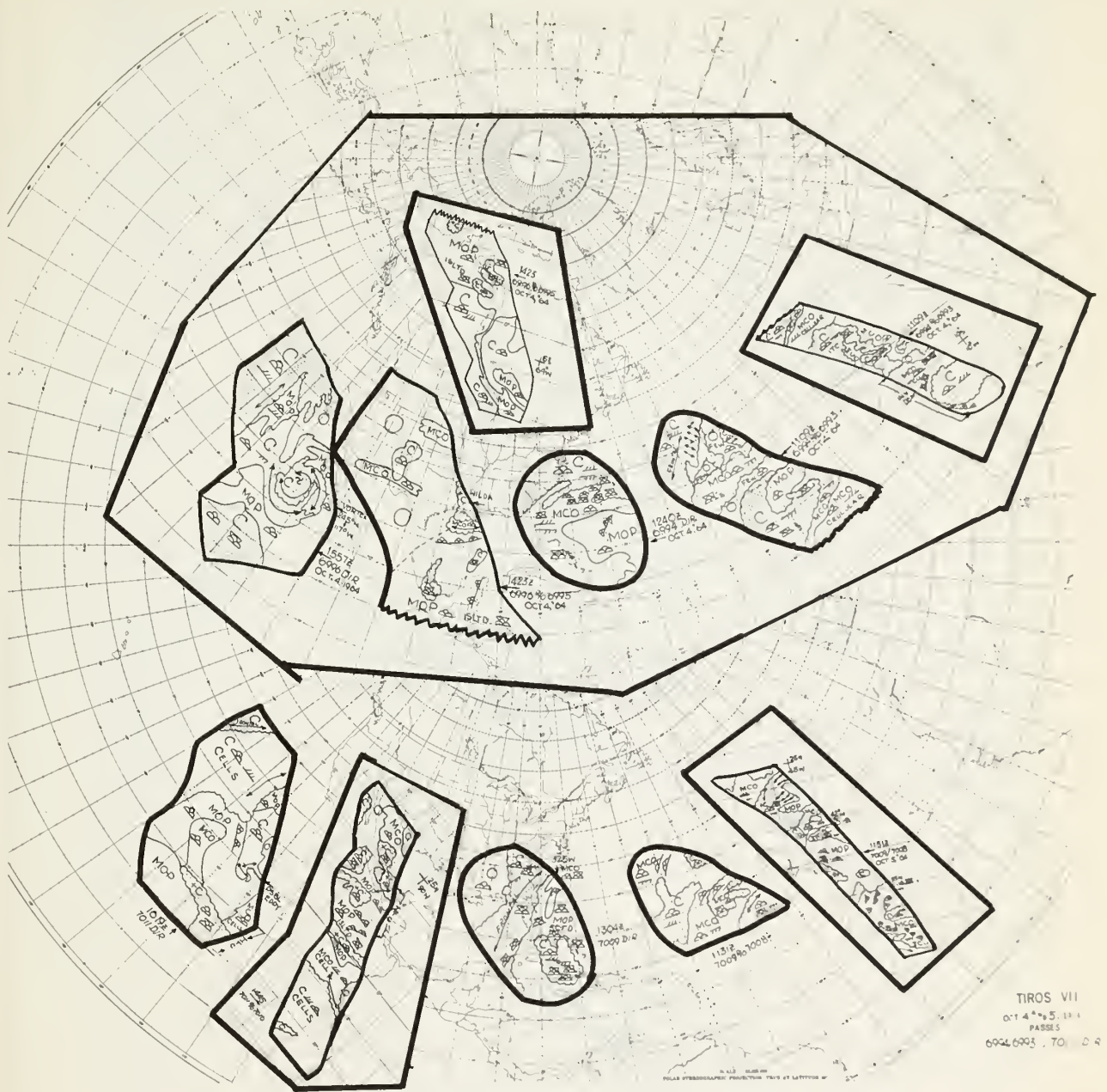
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OCT 1, 1964
6950 DIR - 6953 DIR



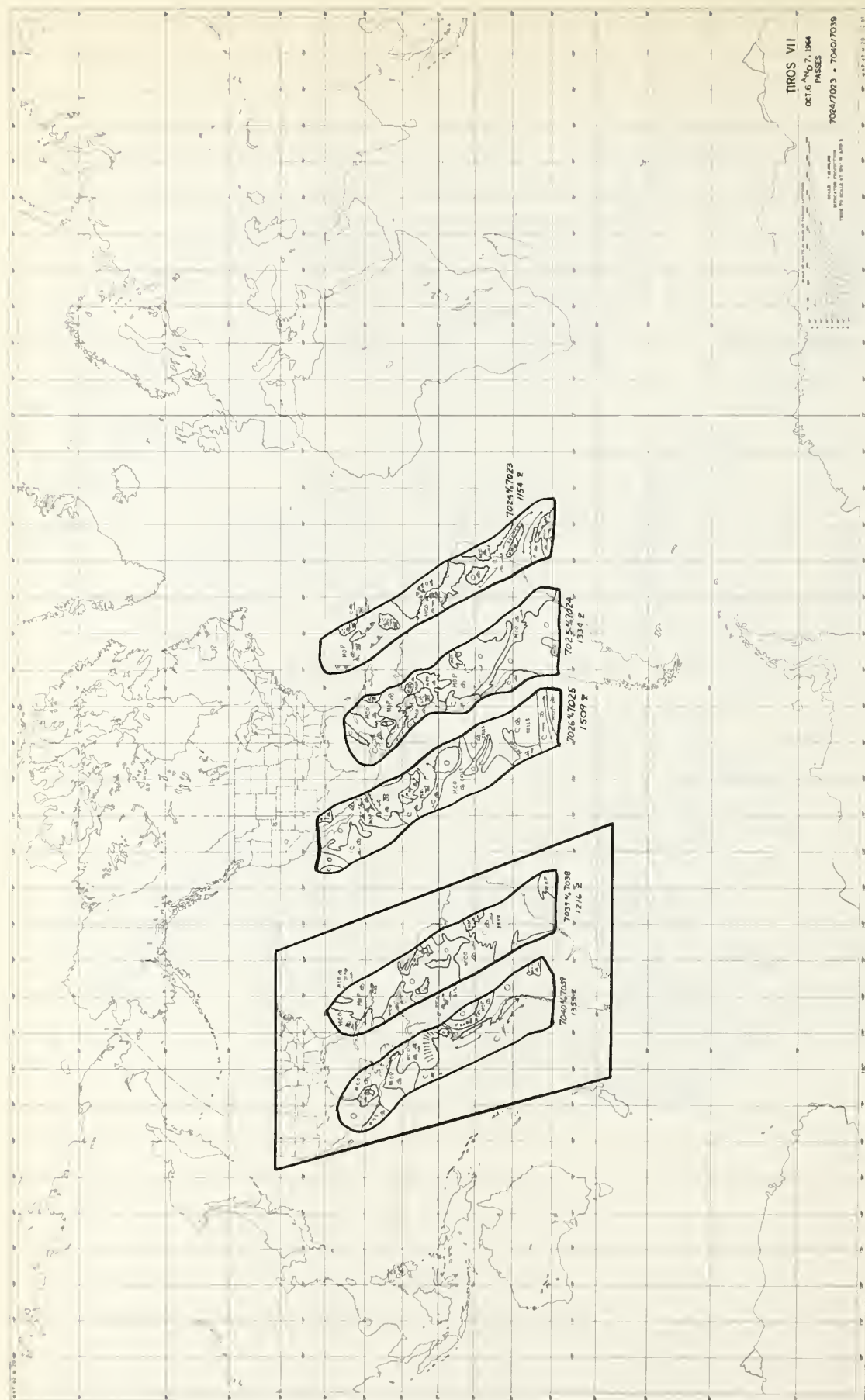
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OCT 2, 1964
6965/6964 6976/6966

TIROS VII
OCT 3, 1964
6980/6975-6982/0 R



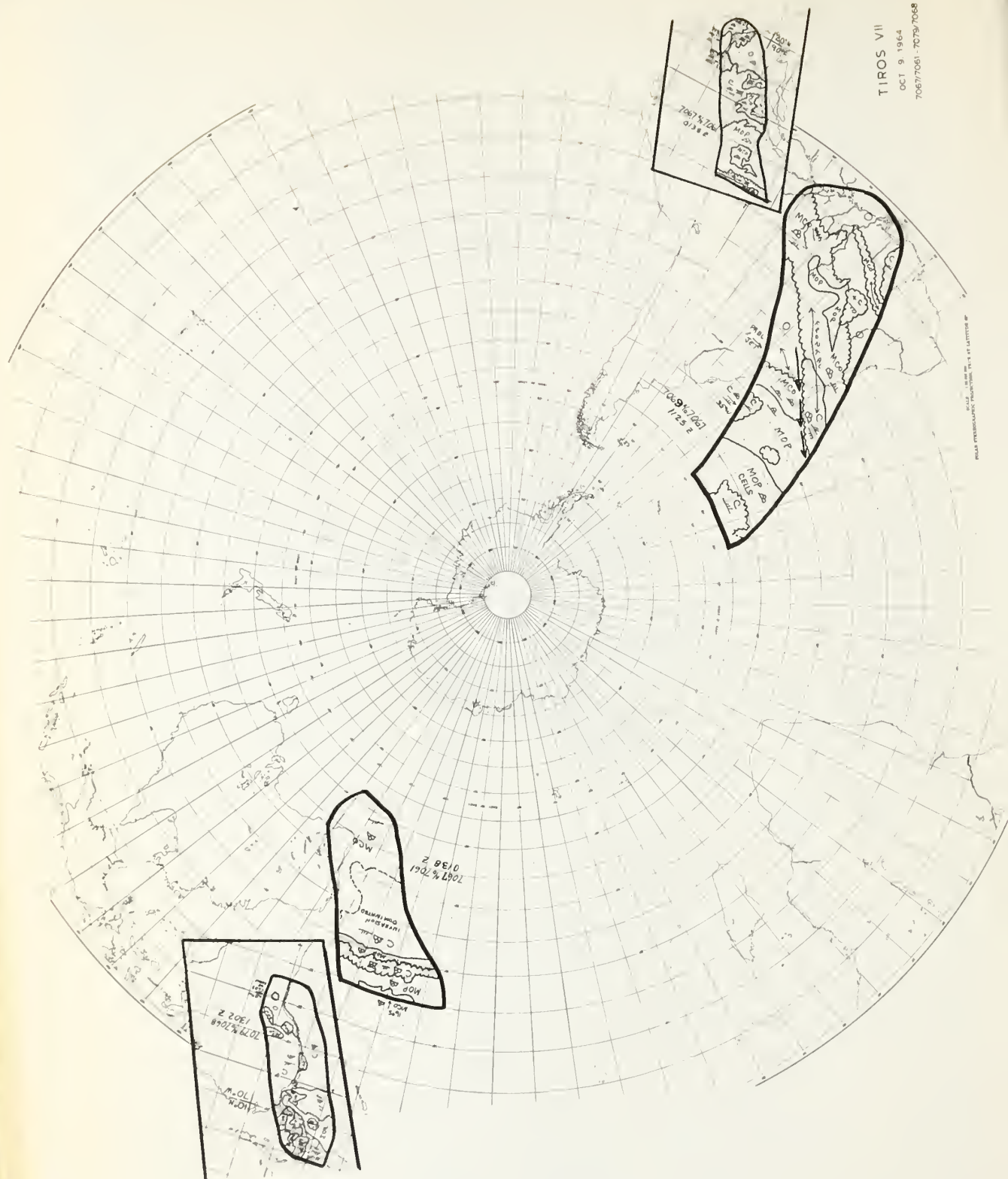


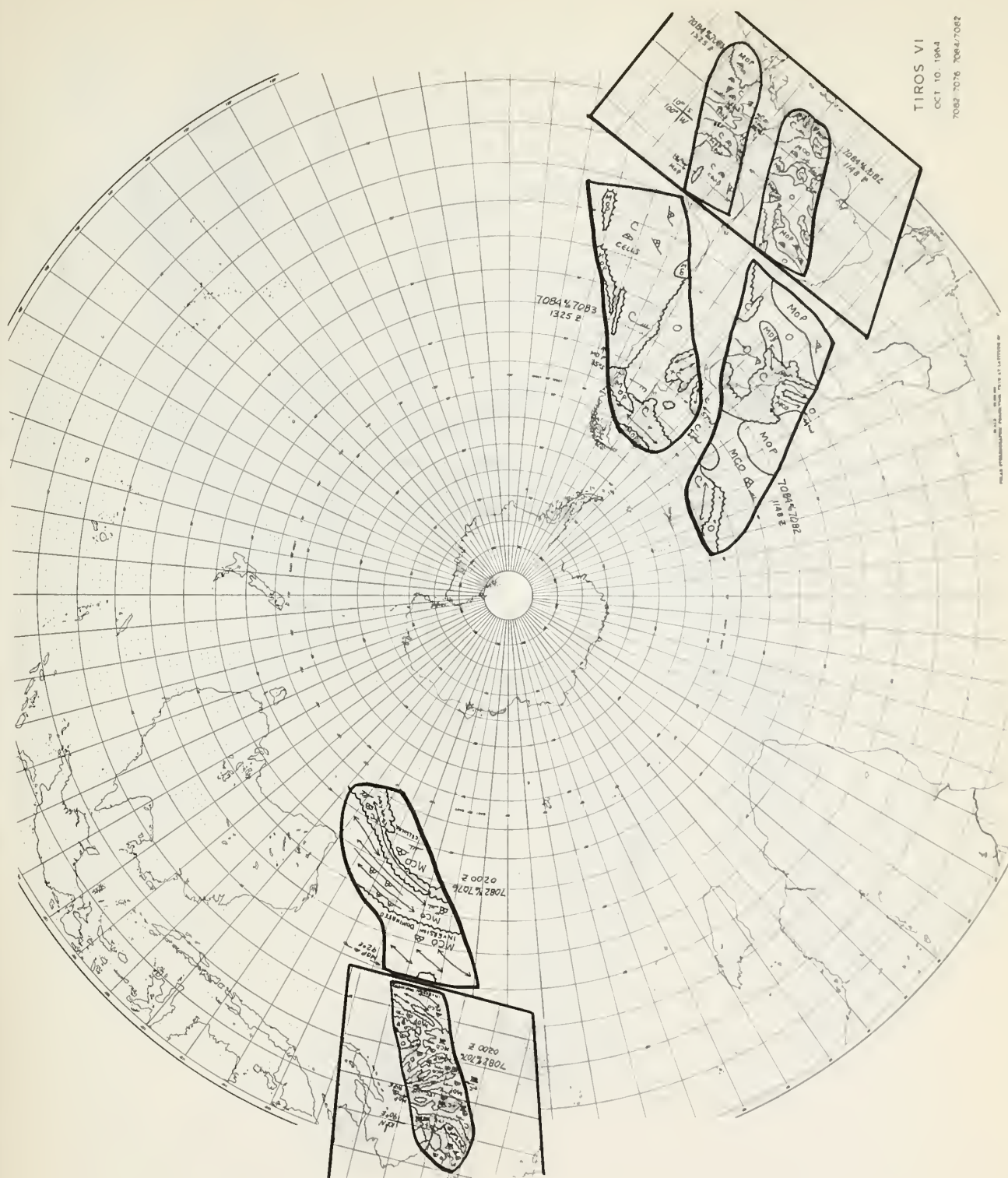
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0° 4' 5.1" N
PASS 5
60266923 . 70 . 0 9



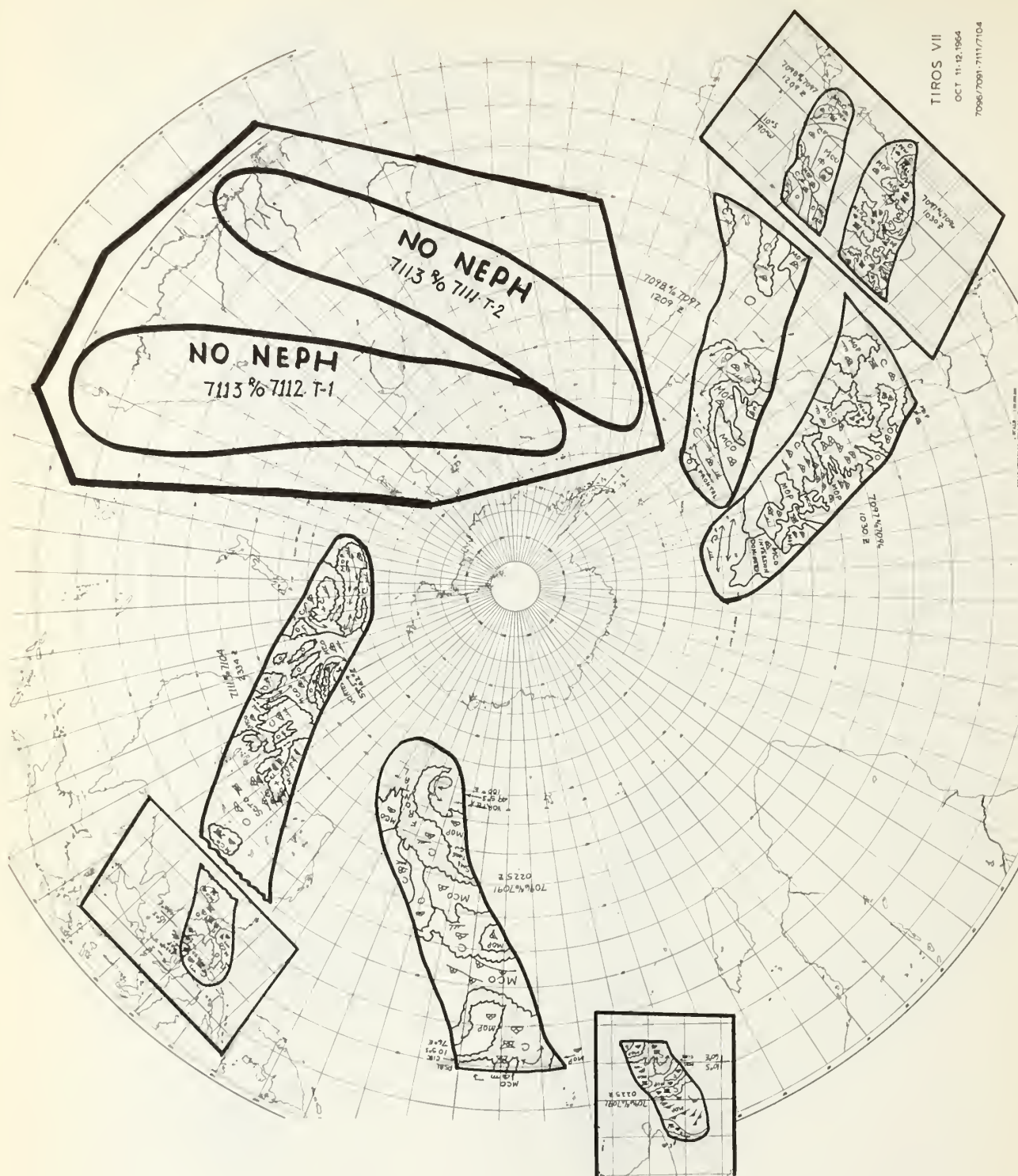


TIROS VII
OCT 9 1964
70677061-70797068



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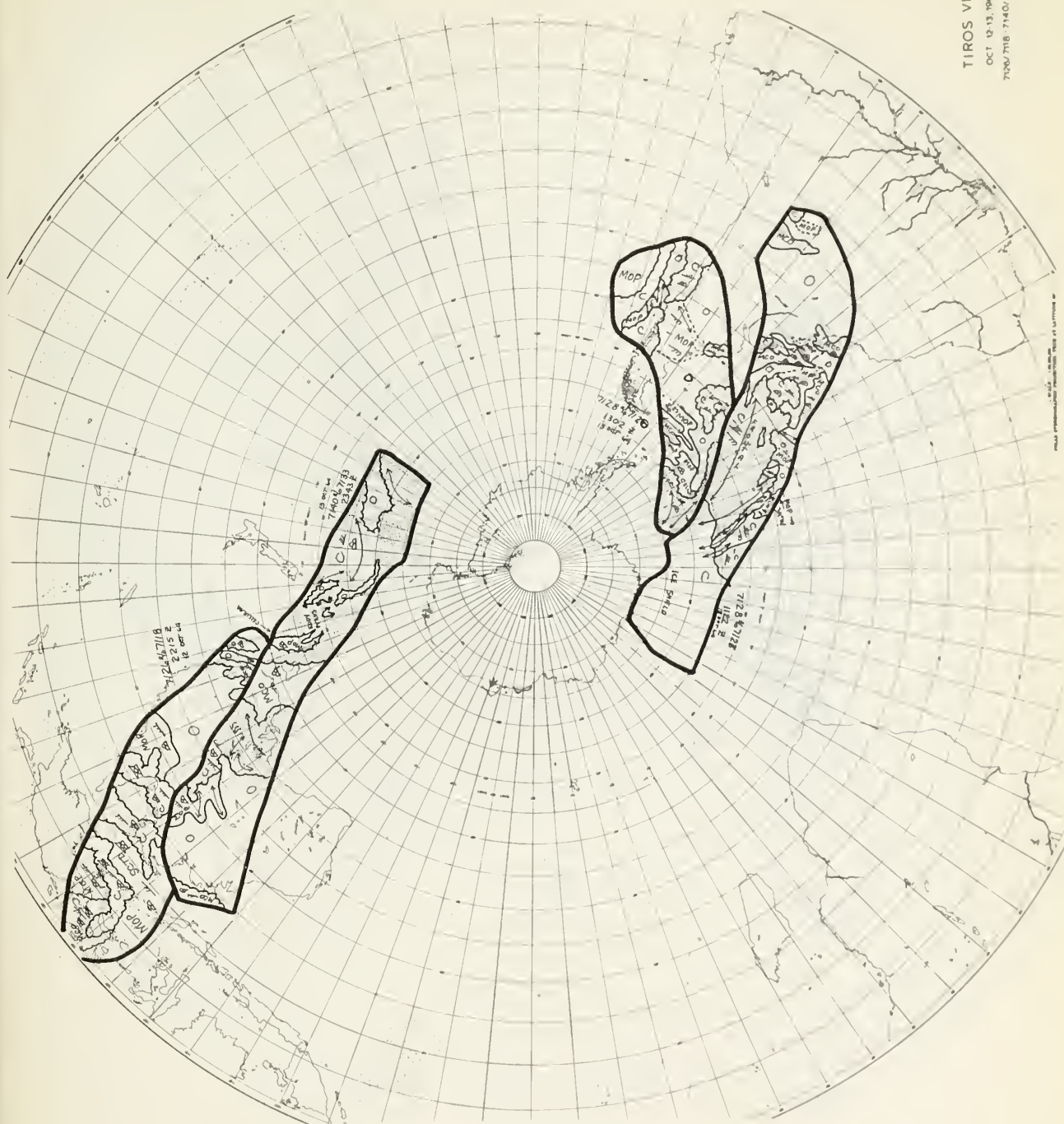
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TIROS VII

OCT 13-13, 1964

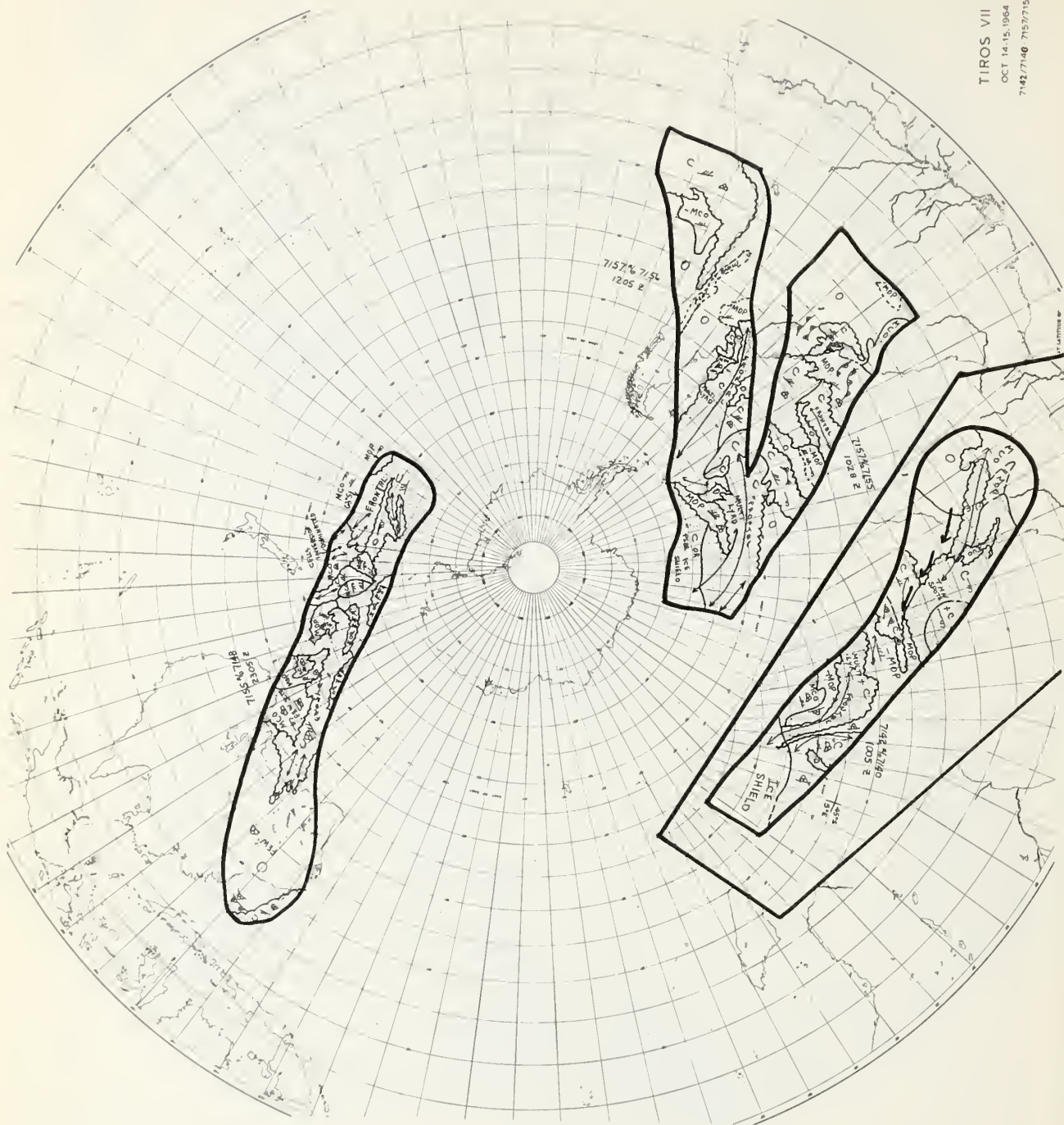
7100/7118 7140/7133



TIROS VII

OCT 14 15, 1964

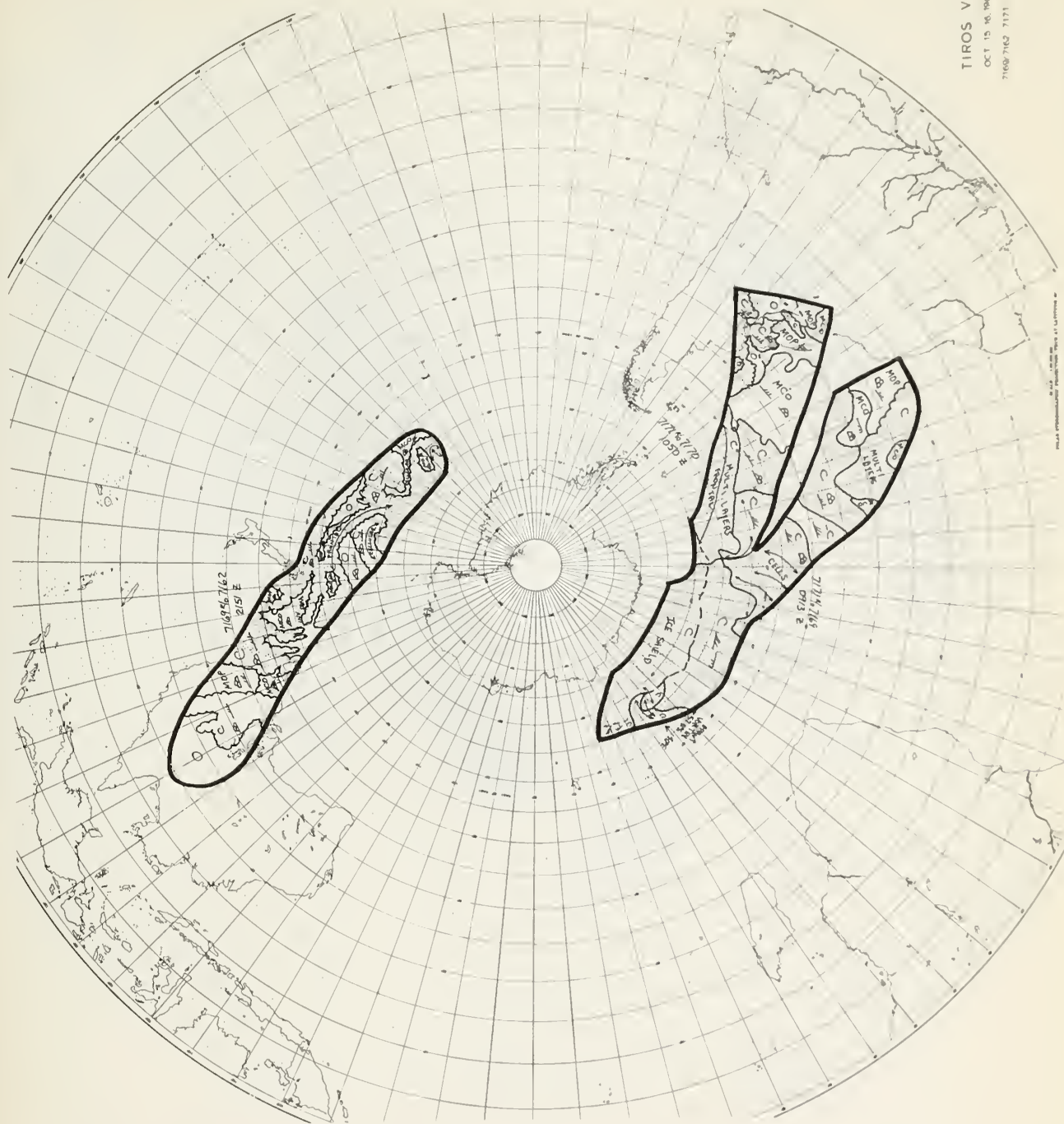
7142/71140 7157/7156



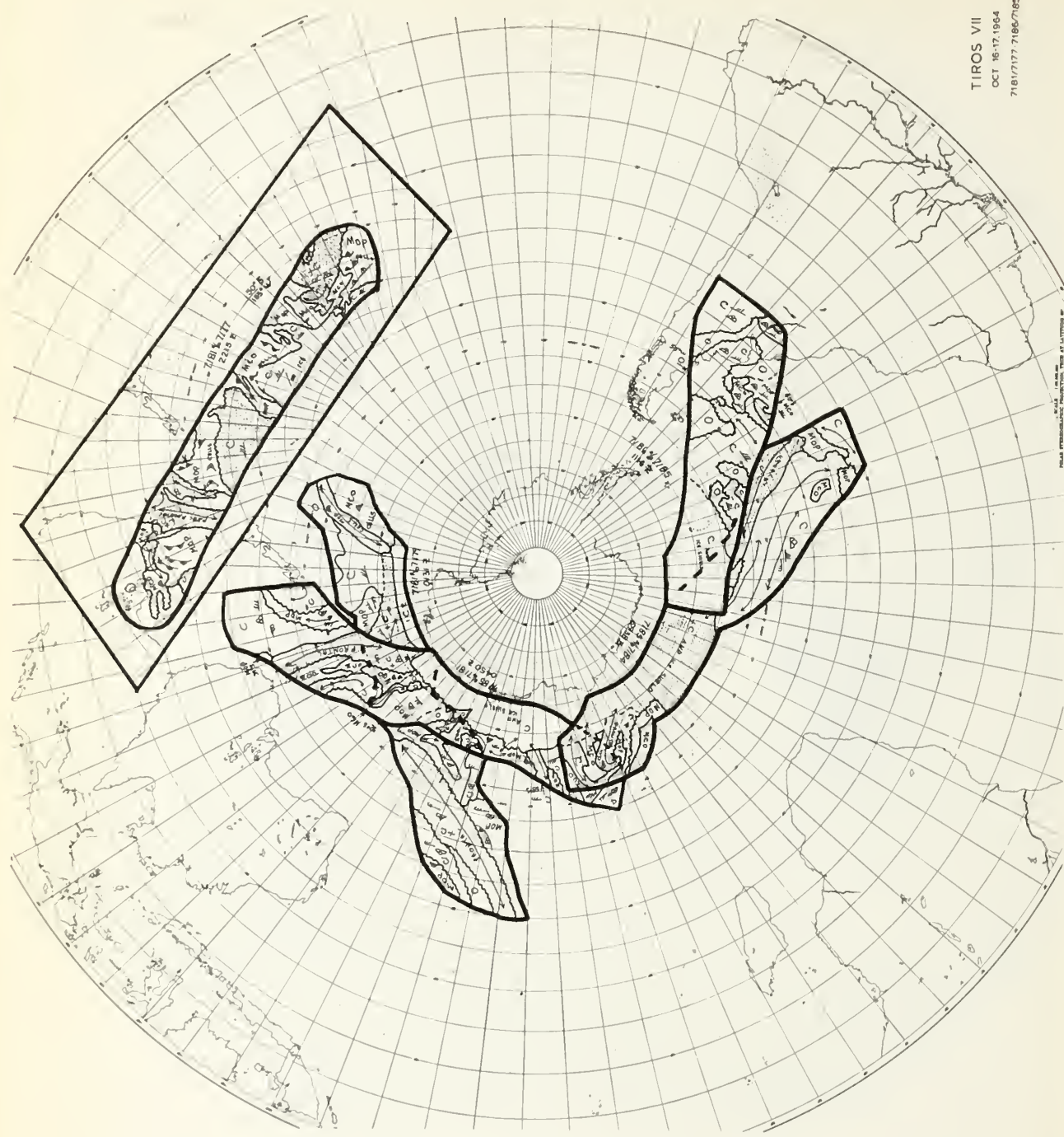
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OCT 15 16 1964

7160/7162 7171 7170

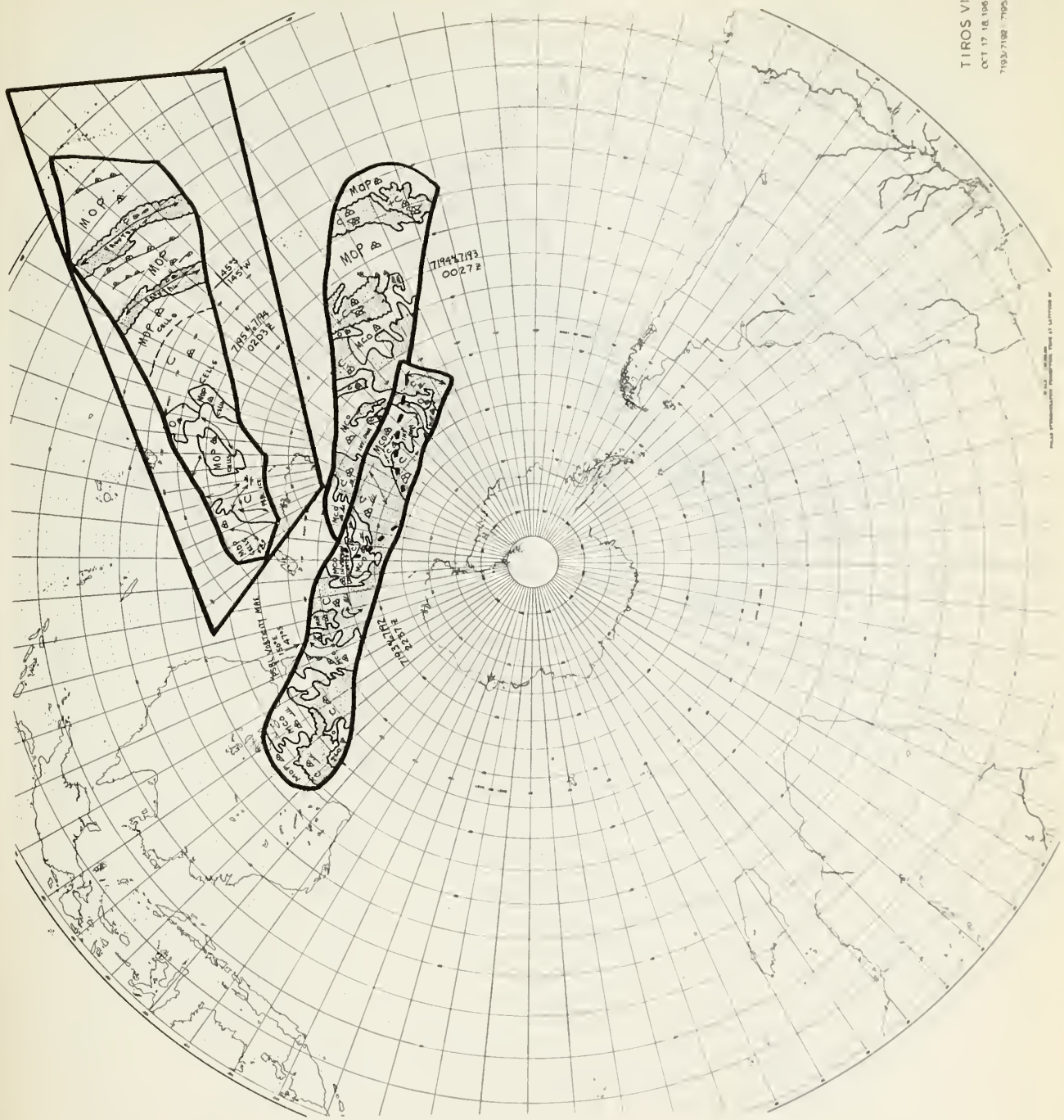


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OCT 16-17, 1964
71817177-71867185



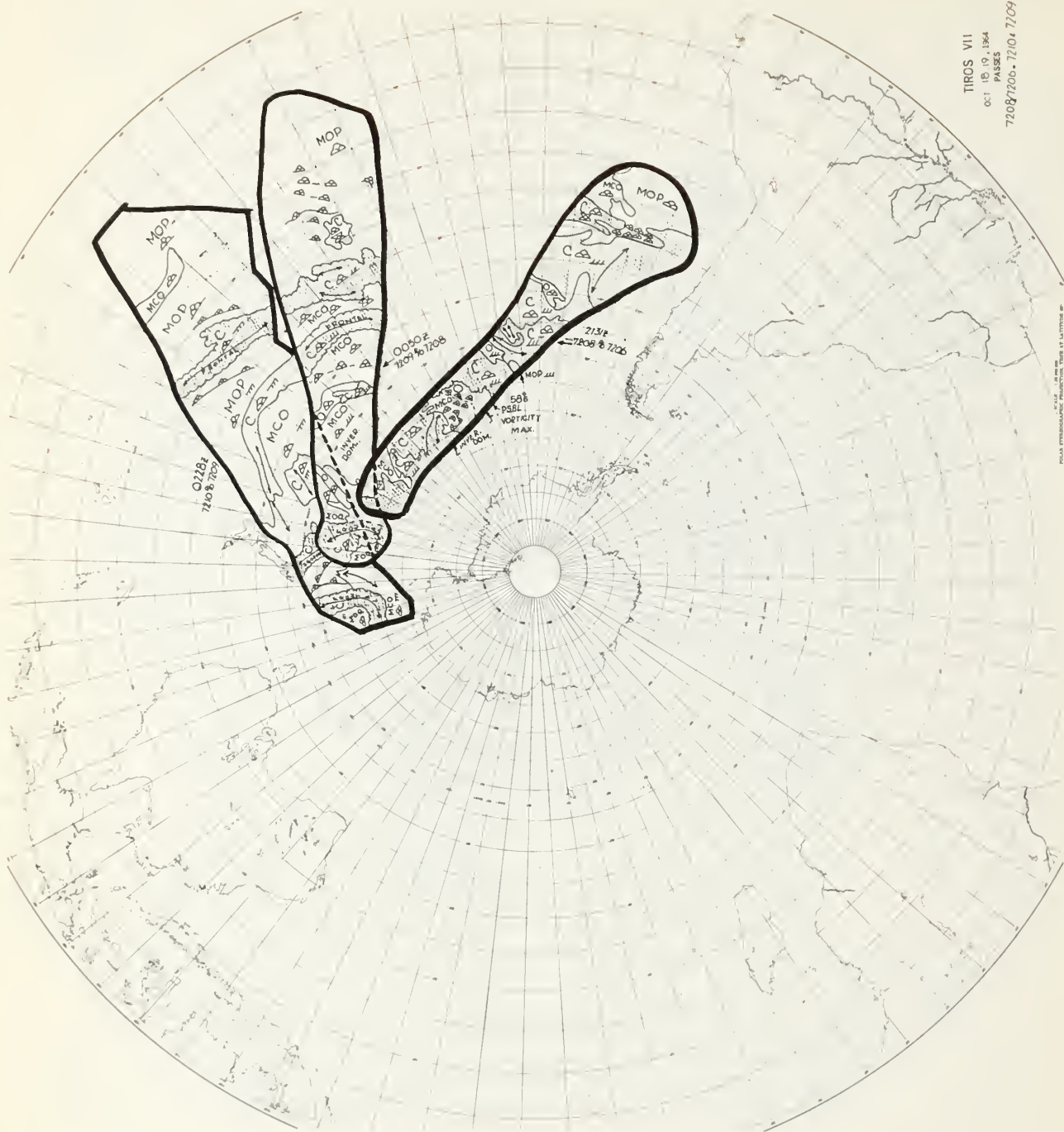
U.S. GOVERNMENT PRINTING OFFICE: 1964

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OCT 17 18, 1964
7193-7192 7195-7194



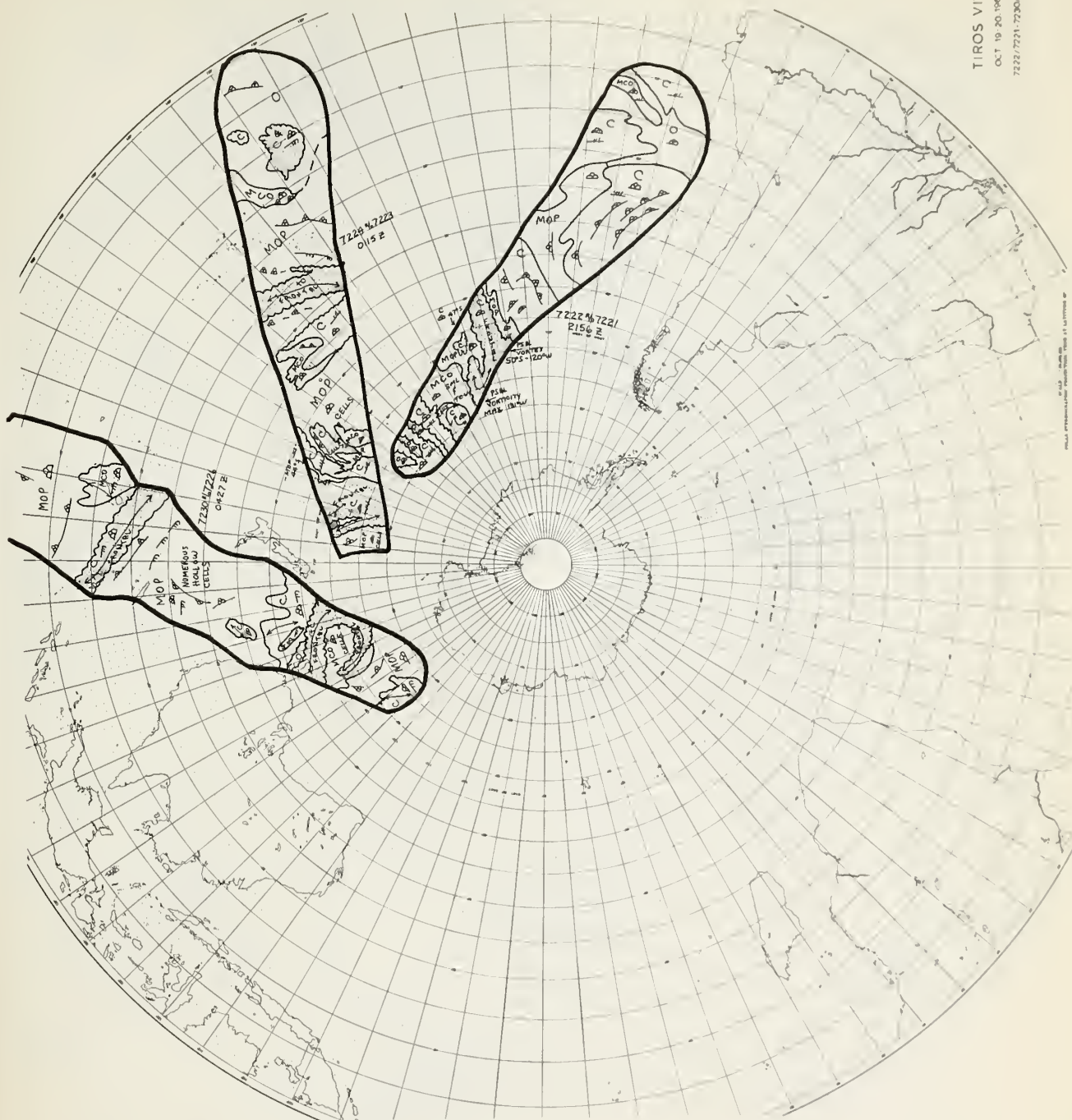
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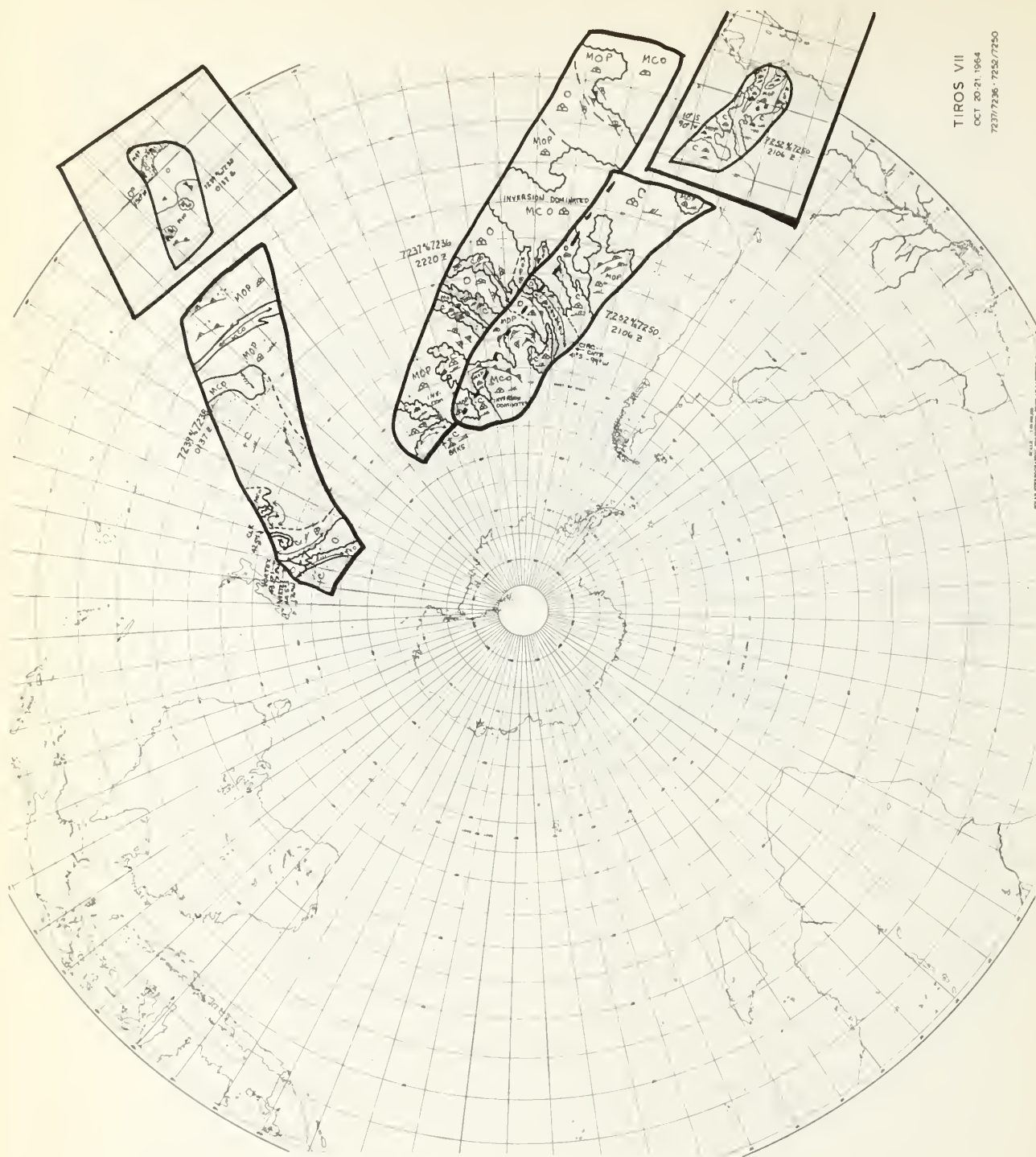
TIROS VII
 OCT 18, 19, 1964
 PASSES
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U.S. AIR FORCE PHOTOGRAPHIC RECONNAISSANCE DIVISION

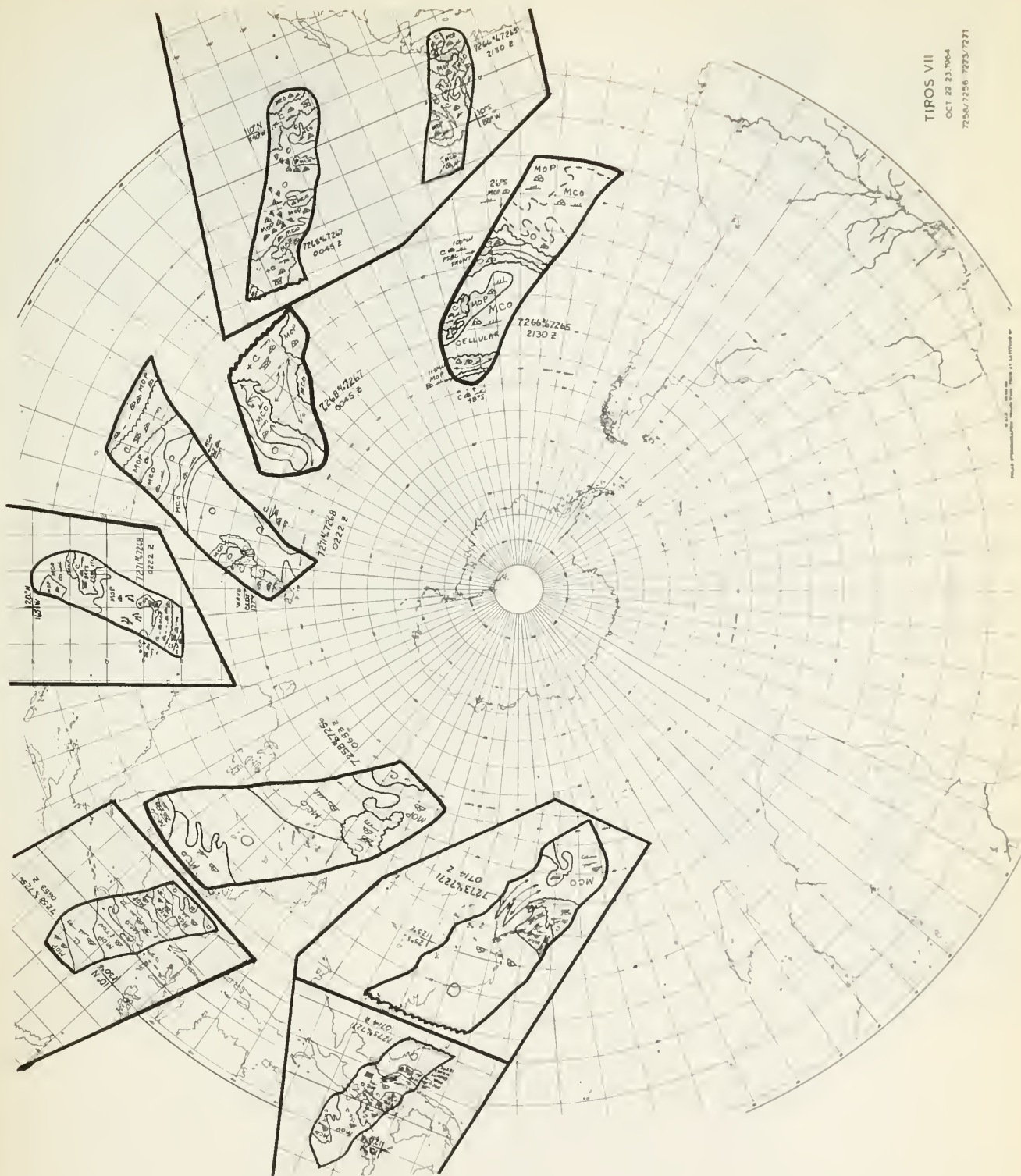
THE UNIVERSITY OF CHICAGO



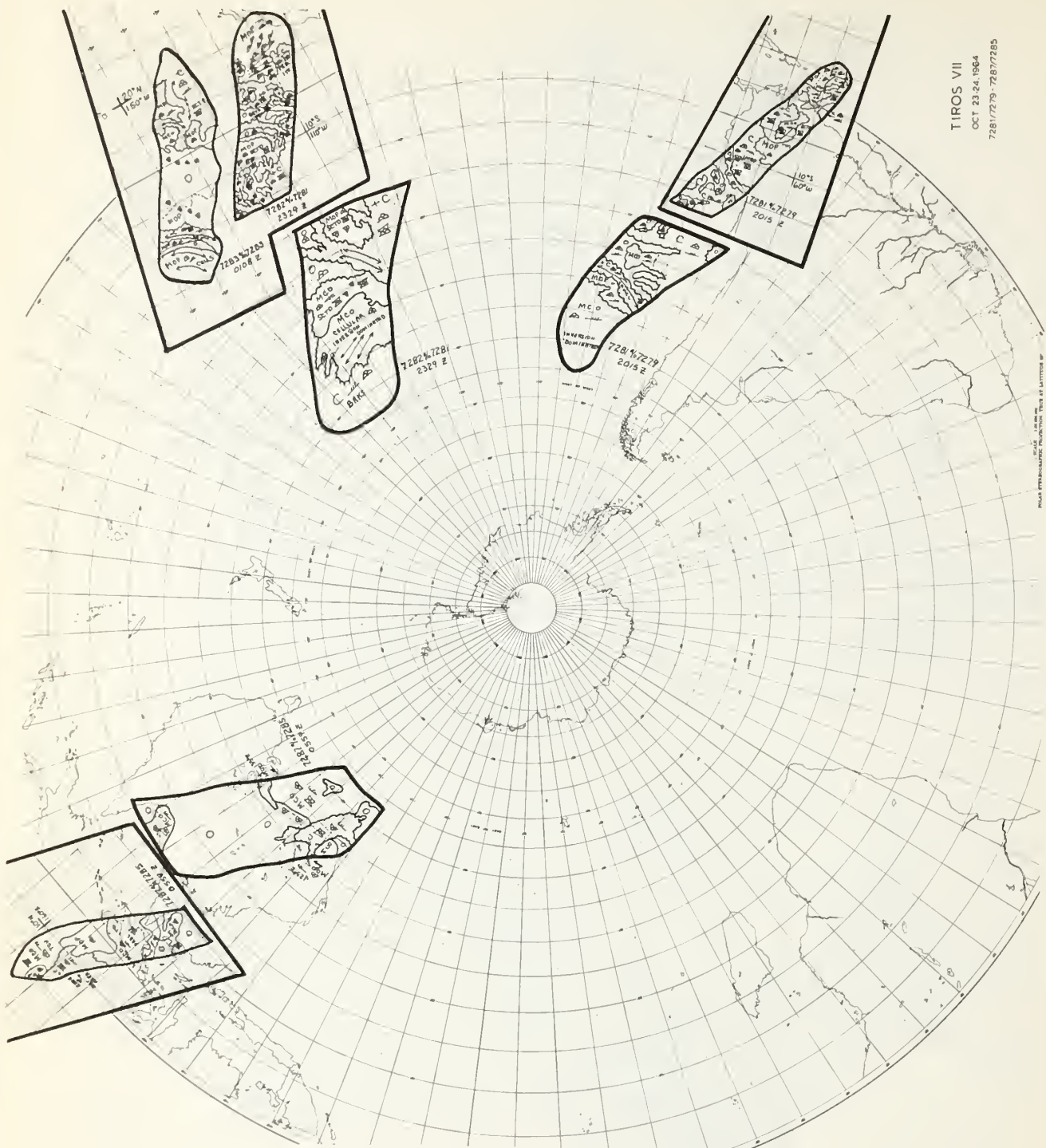


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OCT 20-21 1964
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TIROS VII
 OCT 22 23 1964
 7256/7256 7273/7271

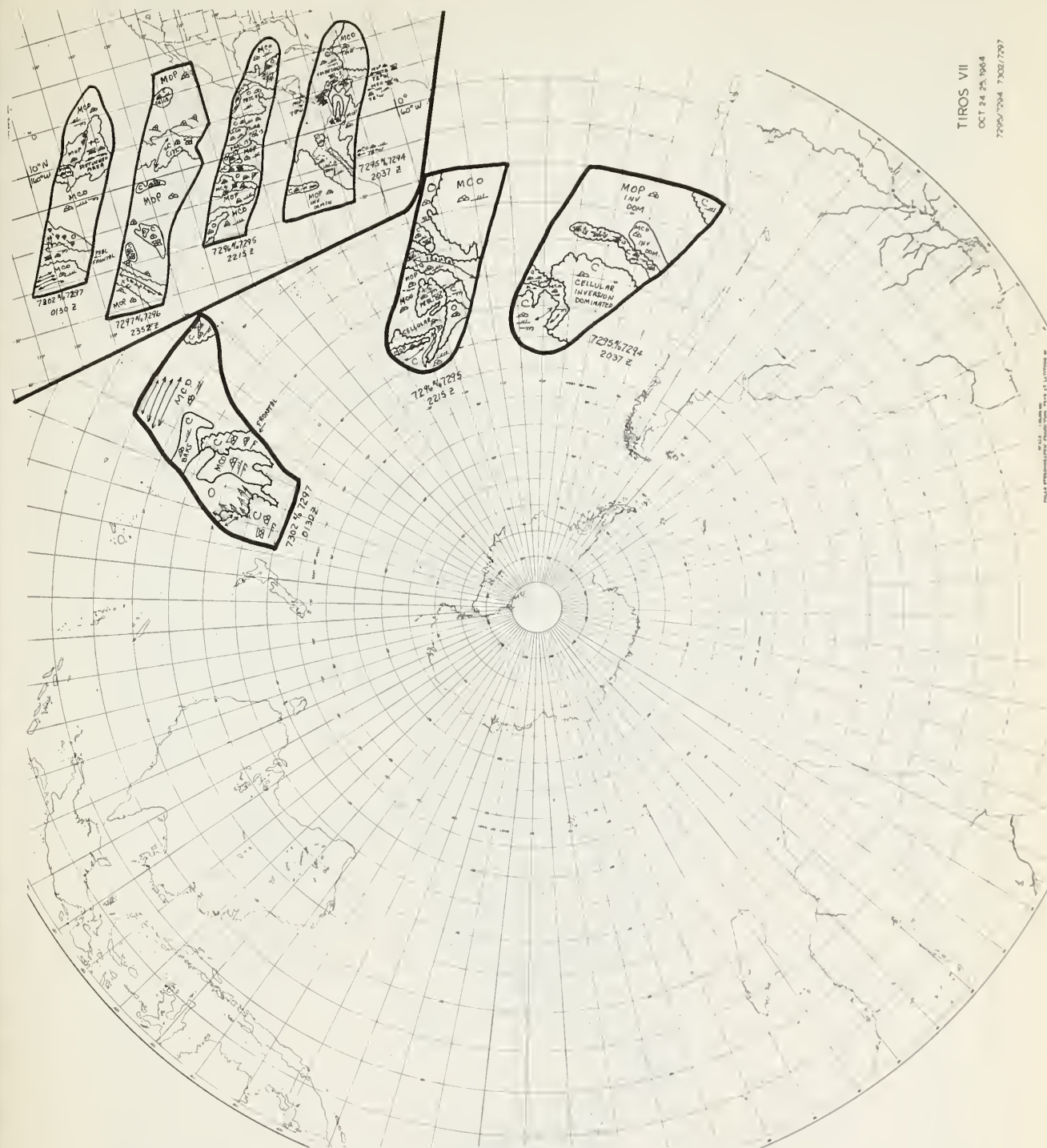


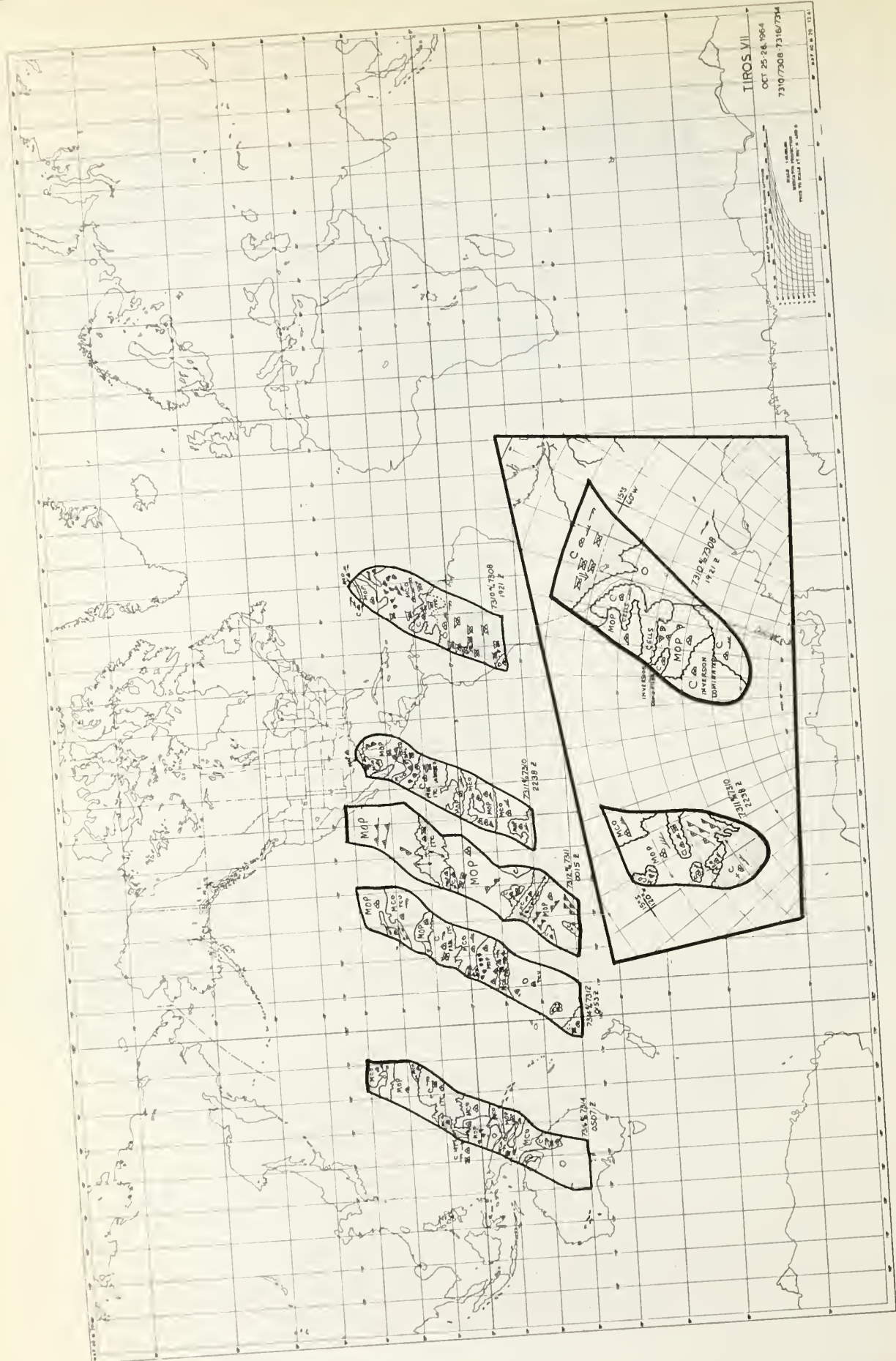
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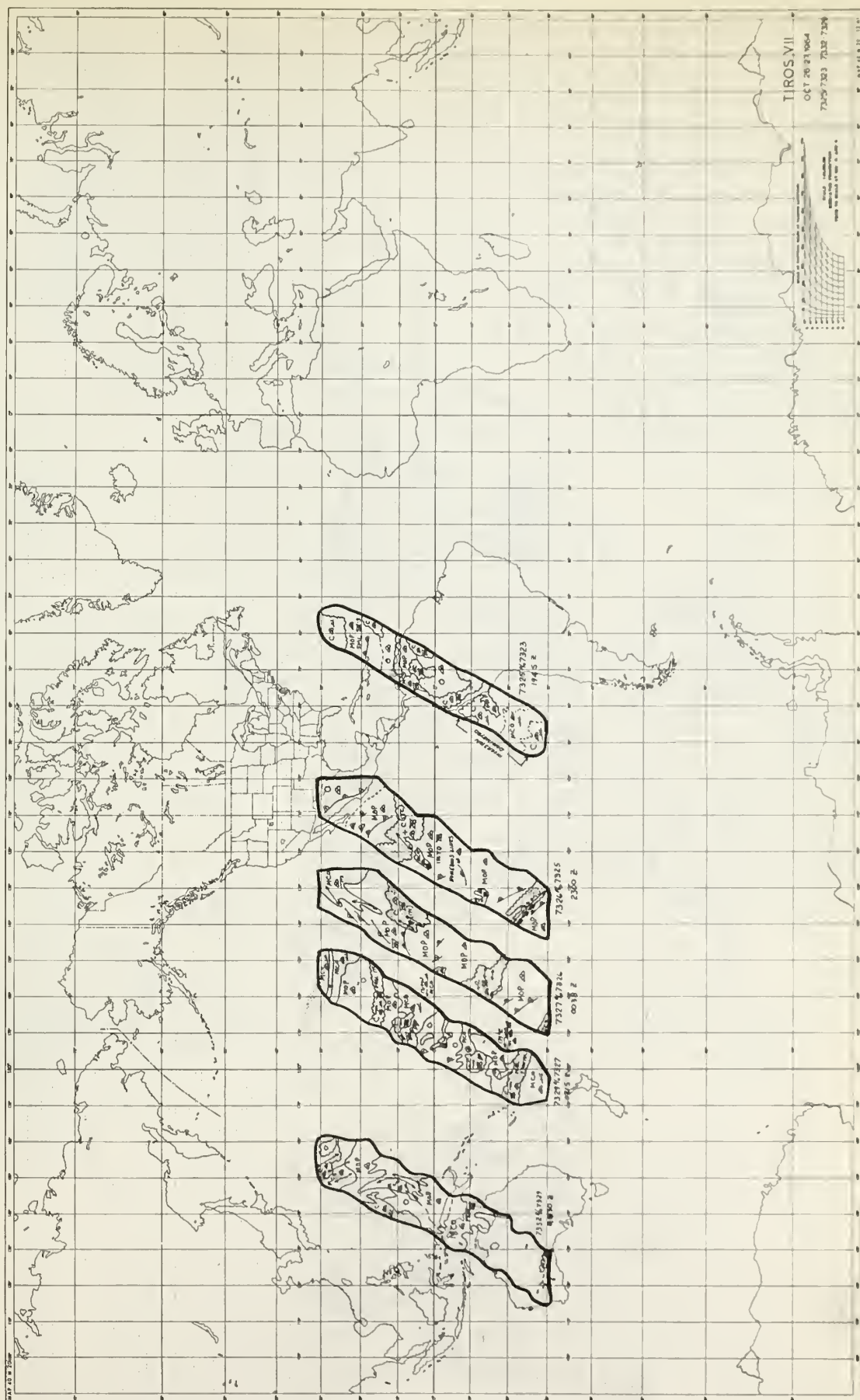


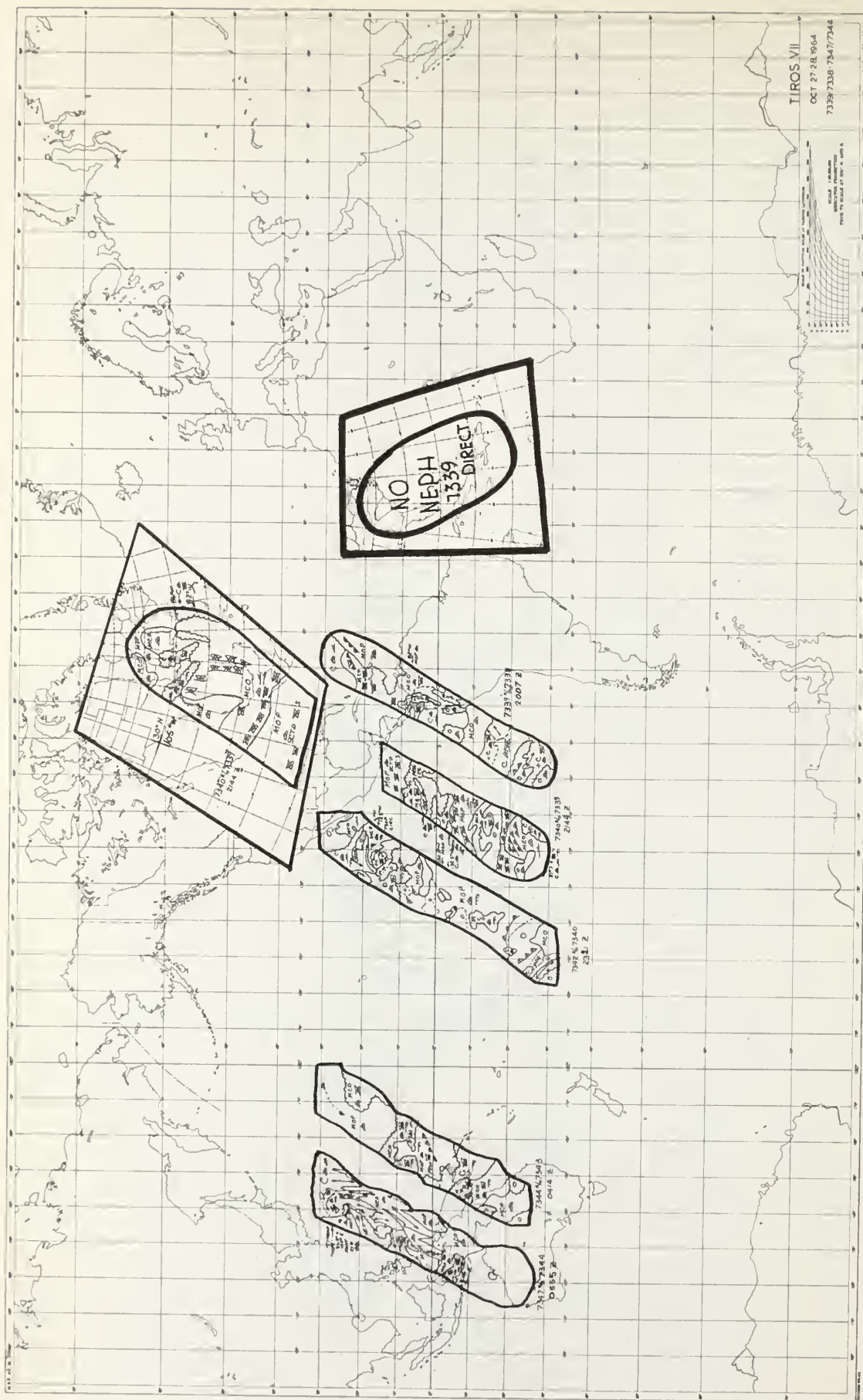
ARCTIC REGION
 POLAR PROJECTION
 PRINTING FROM THE ARCTIC REGION

7295/7294 7302/7297





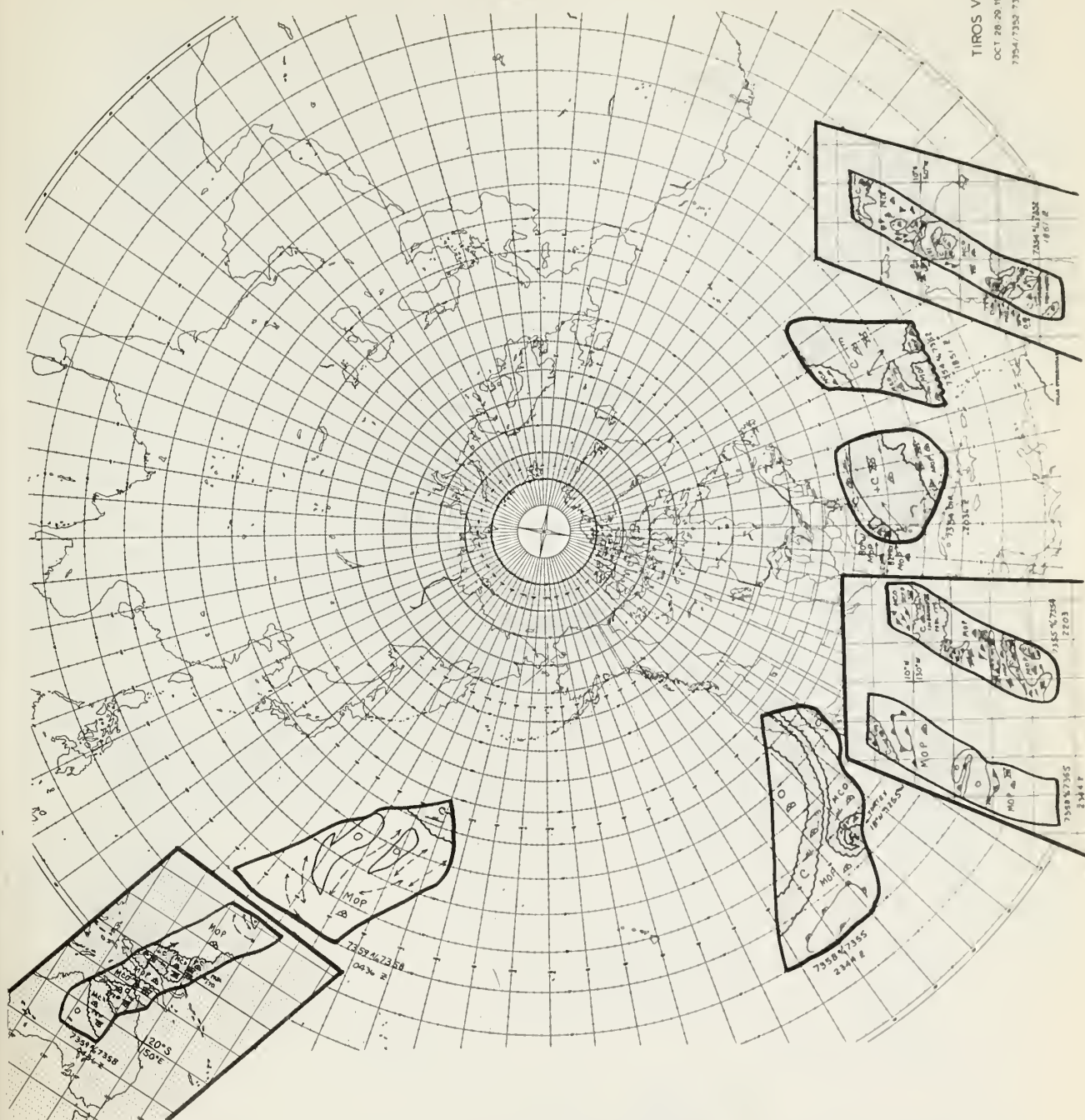


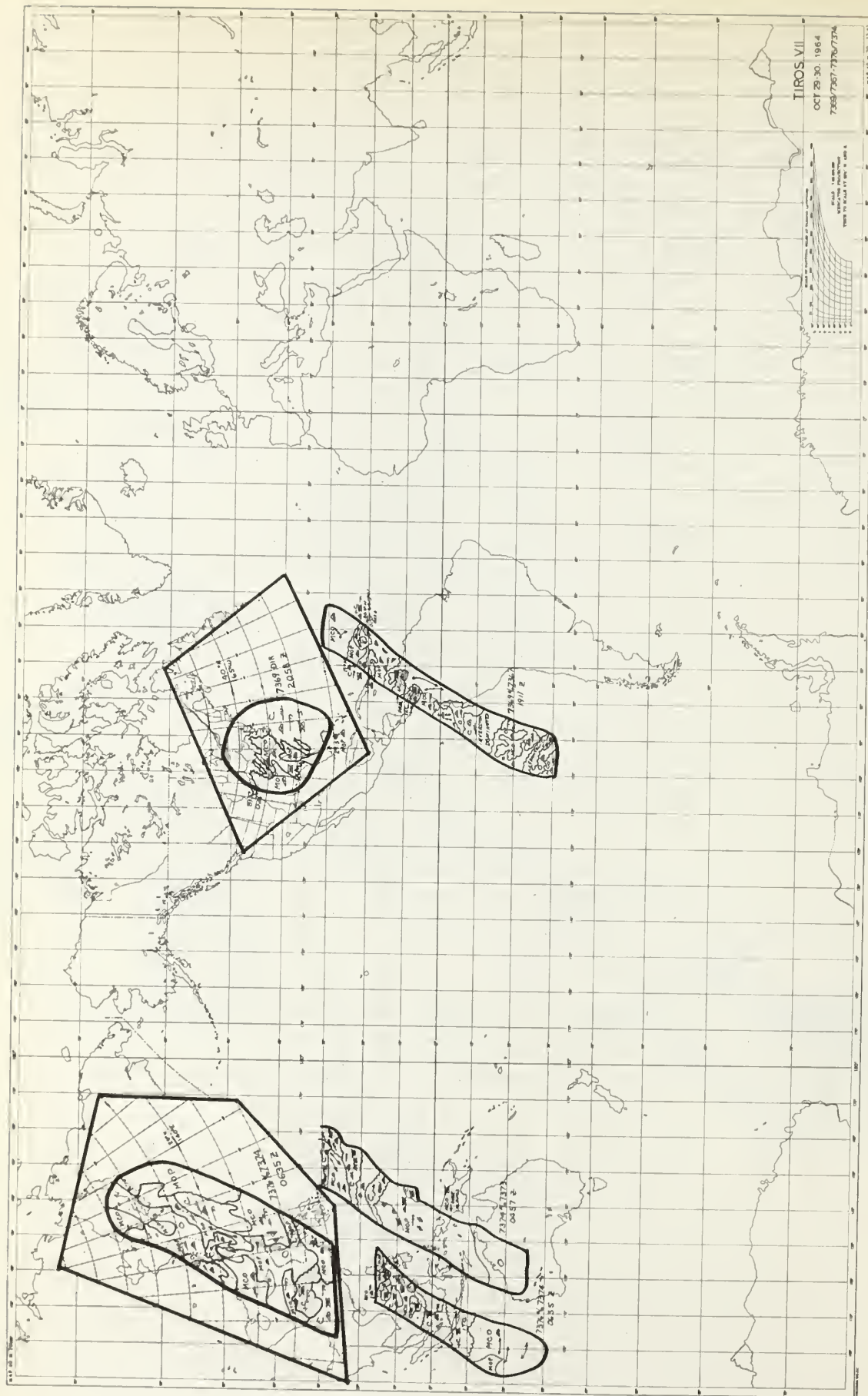


TIROS VII

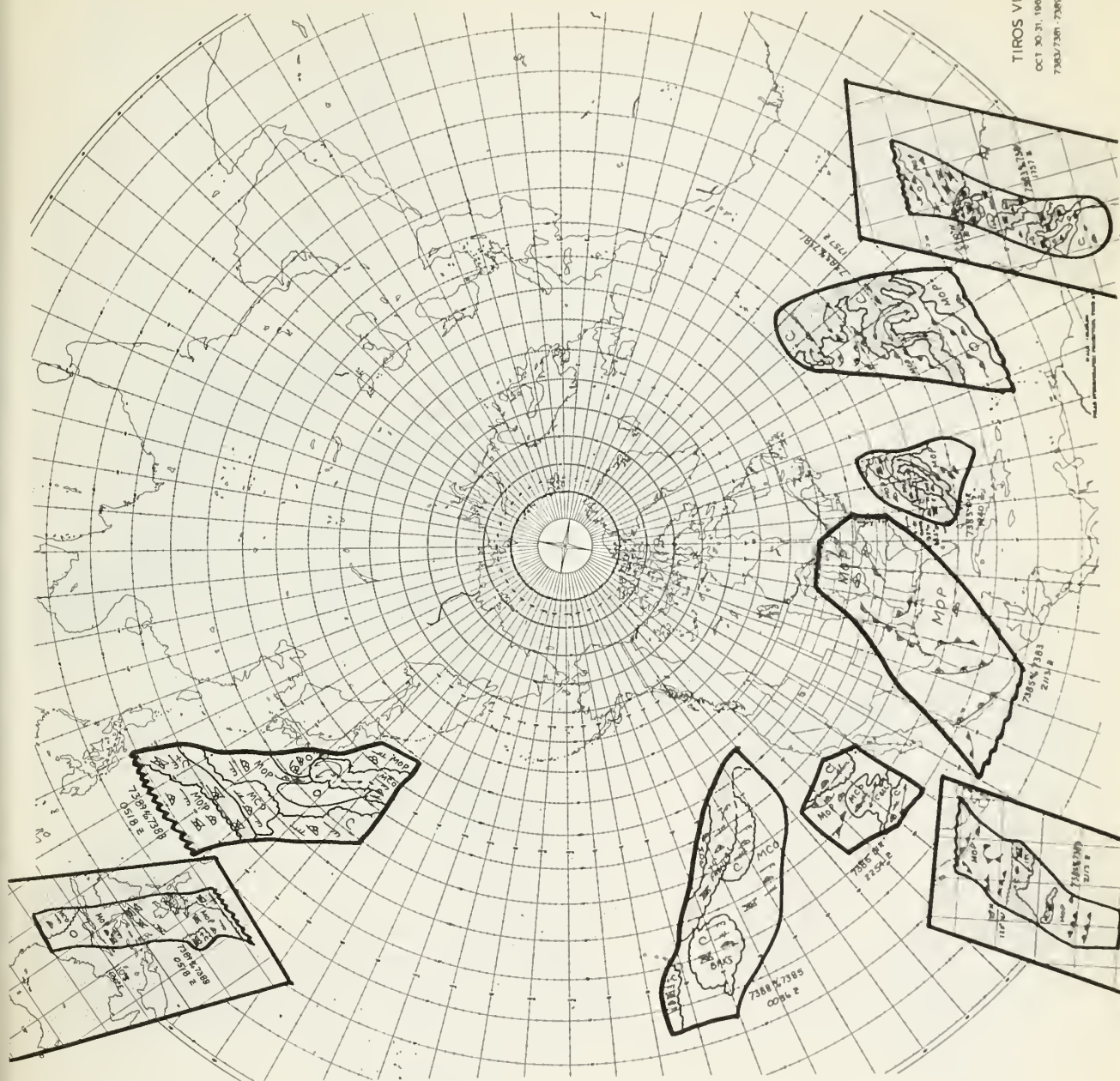
OCT 26 20 1964

7354/7355 7356/7358

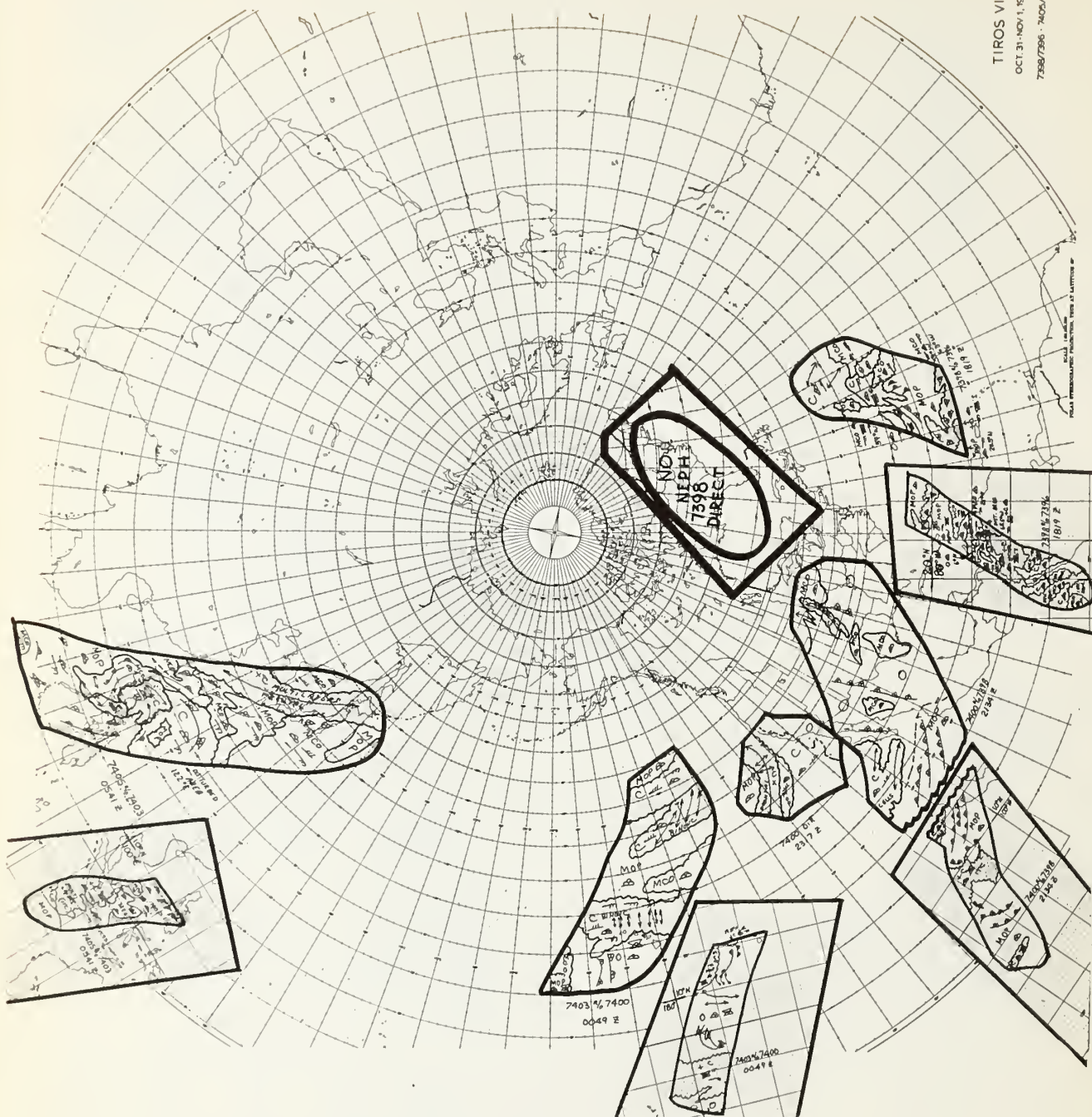




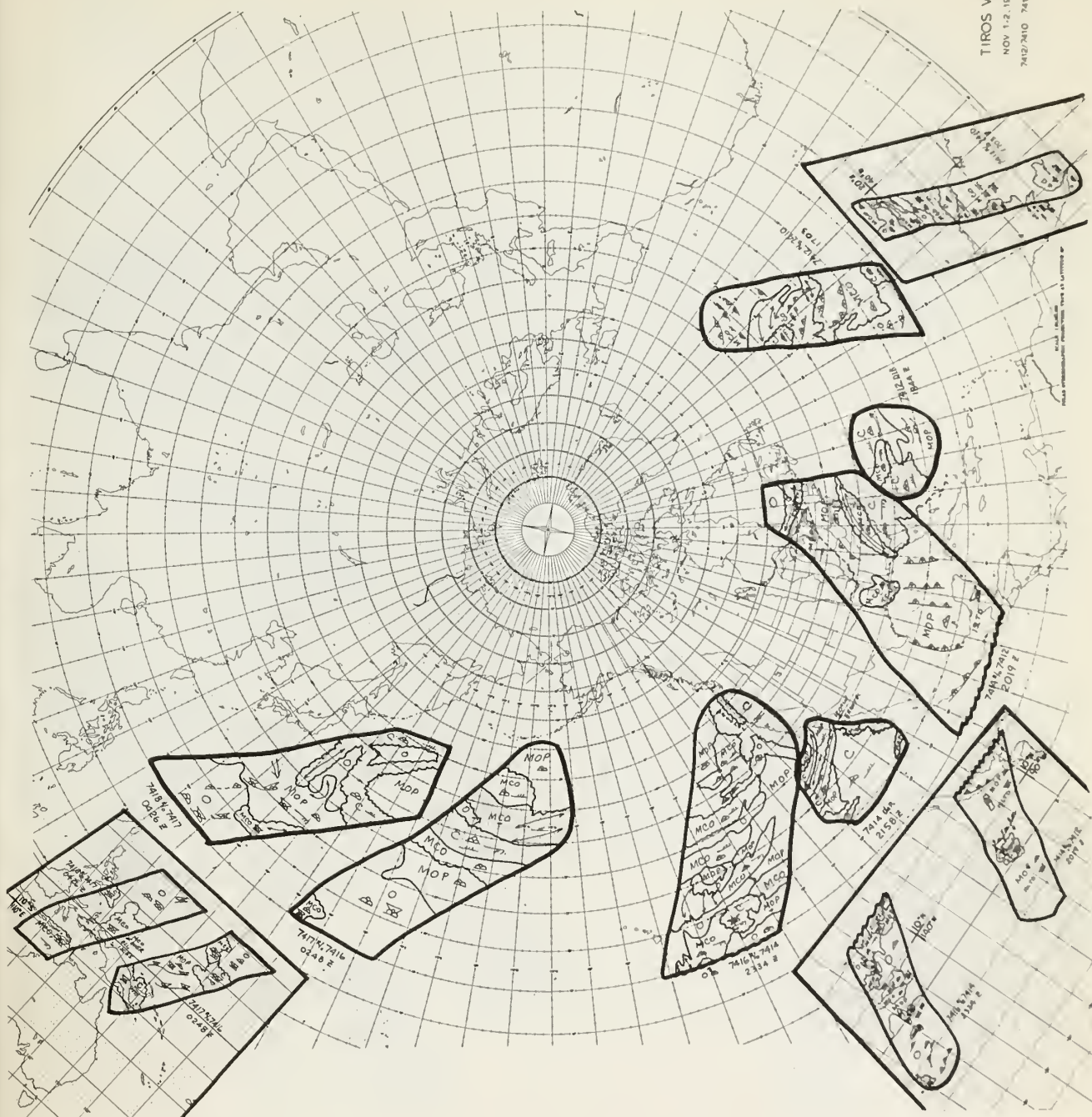
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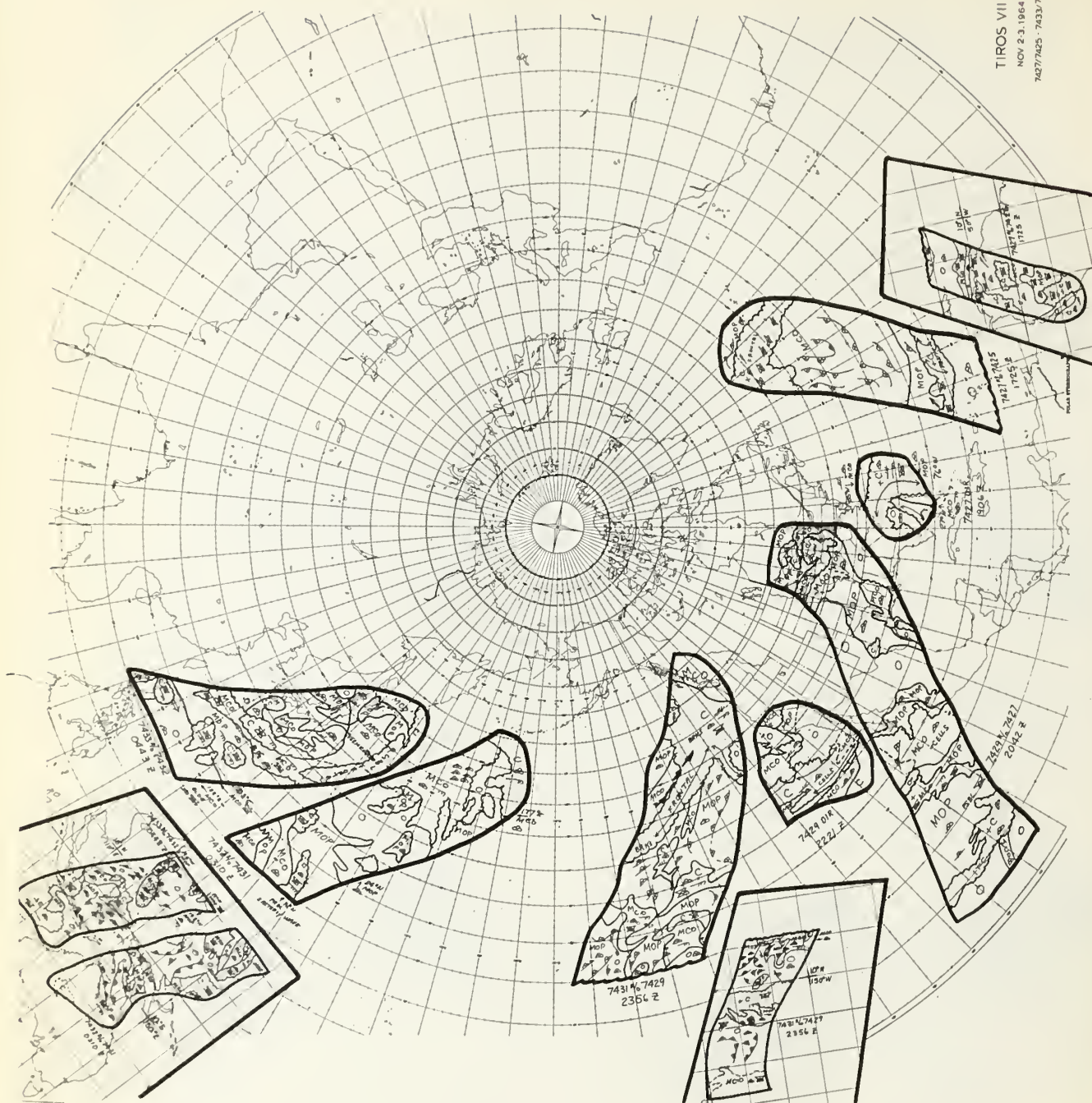


7398/7396 · 7405/7403

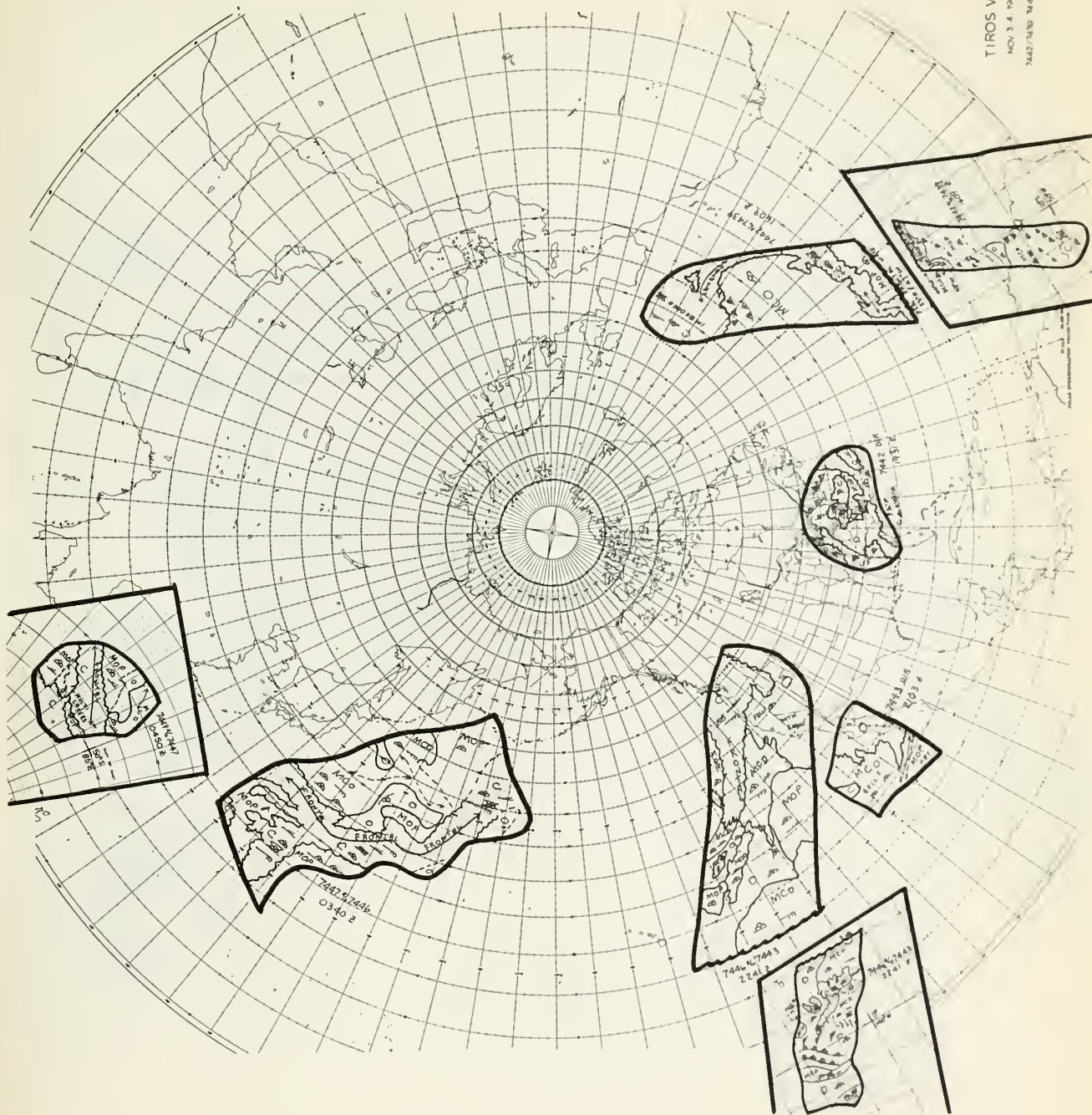


TIROS VII
NOV 12, 1964
7412/7410 7418/7417

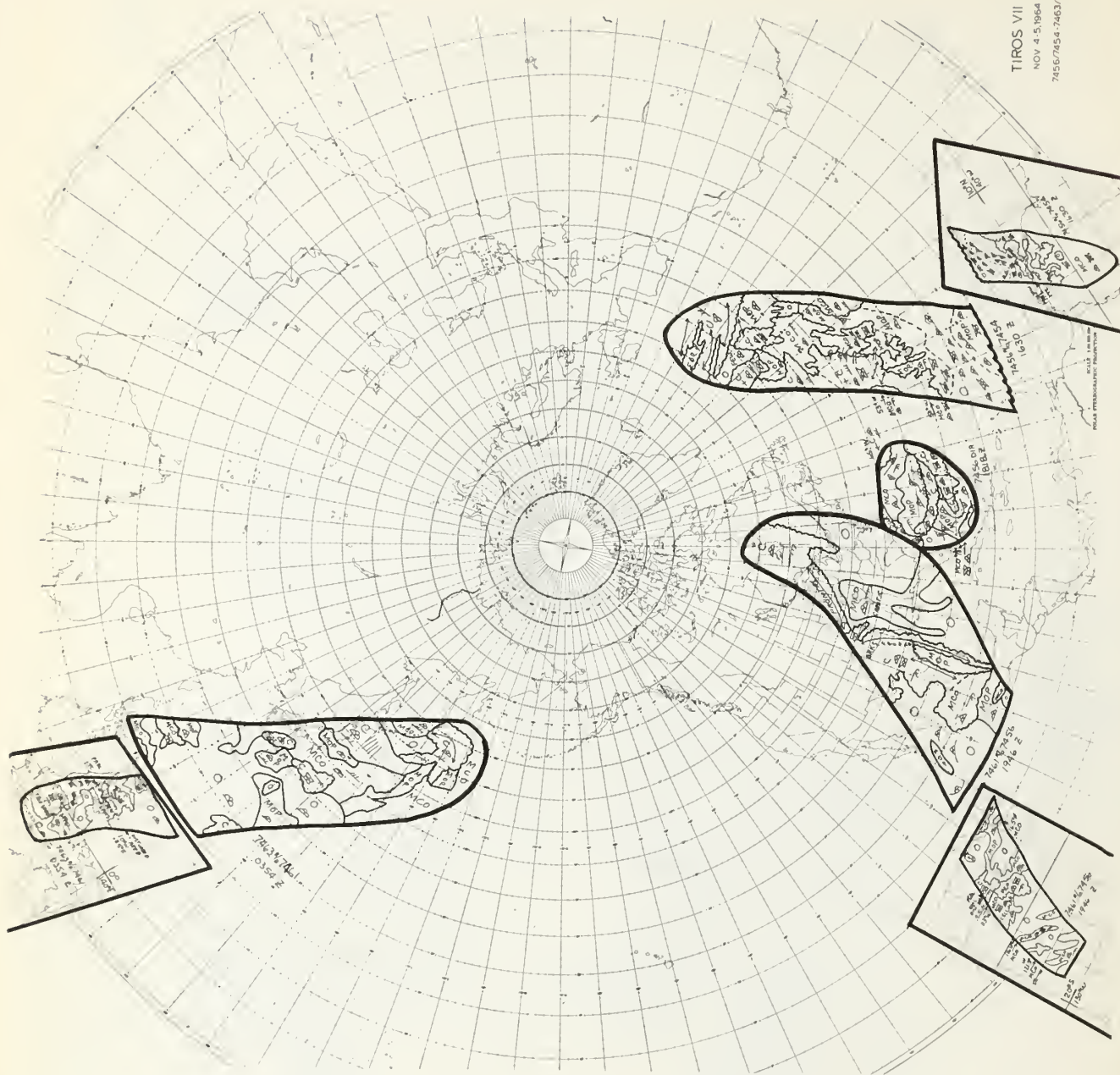




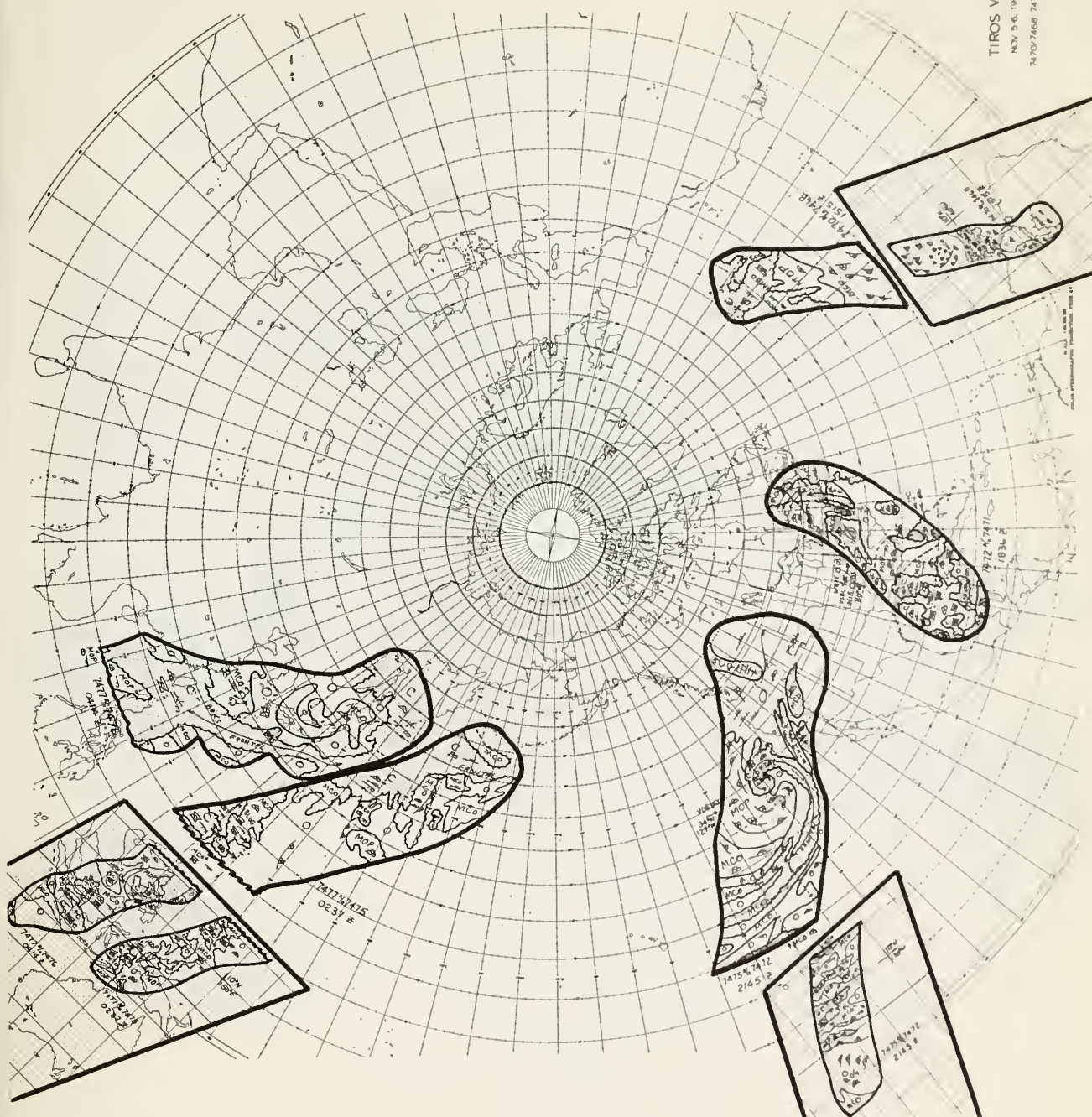
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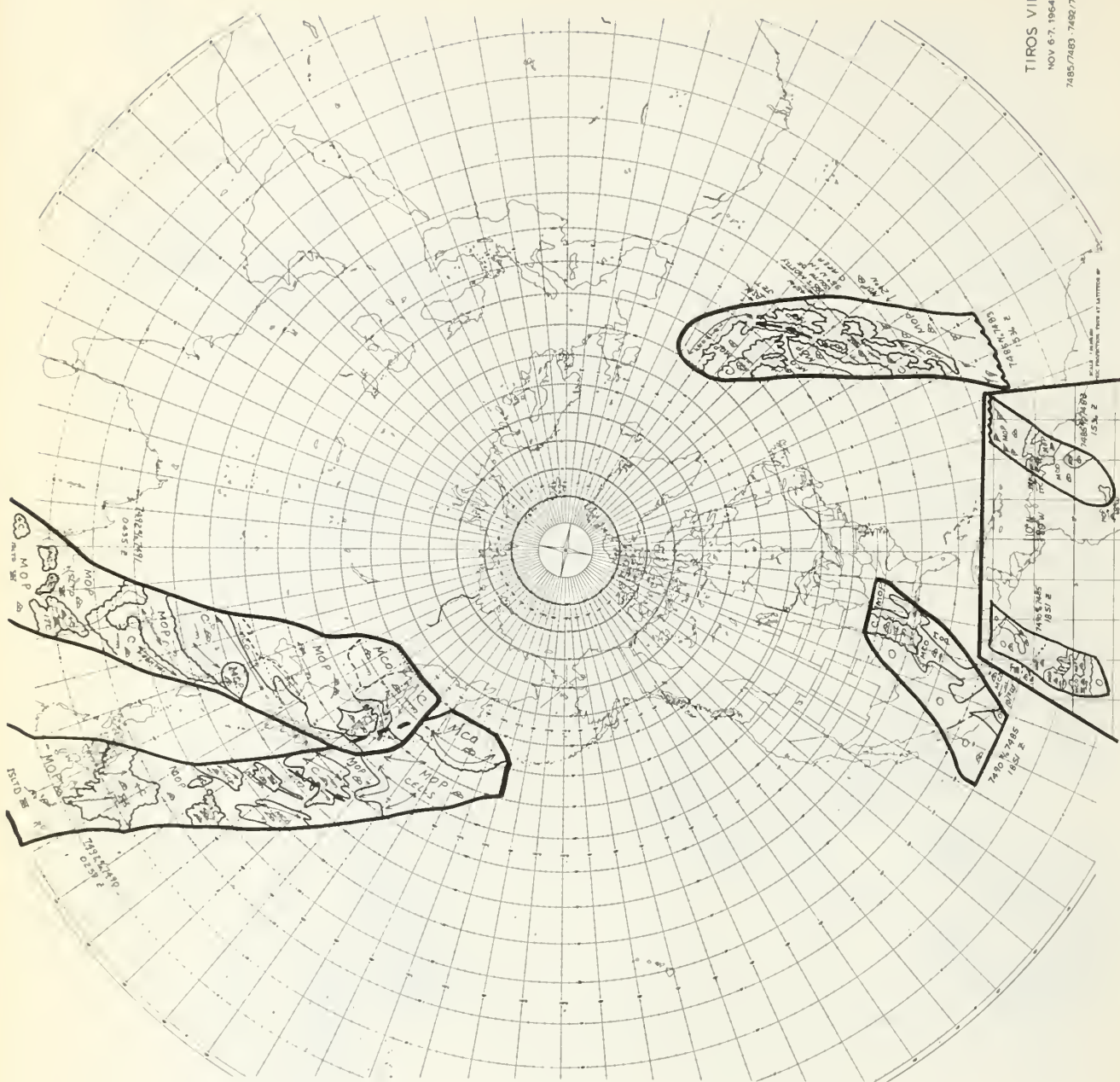
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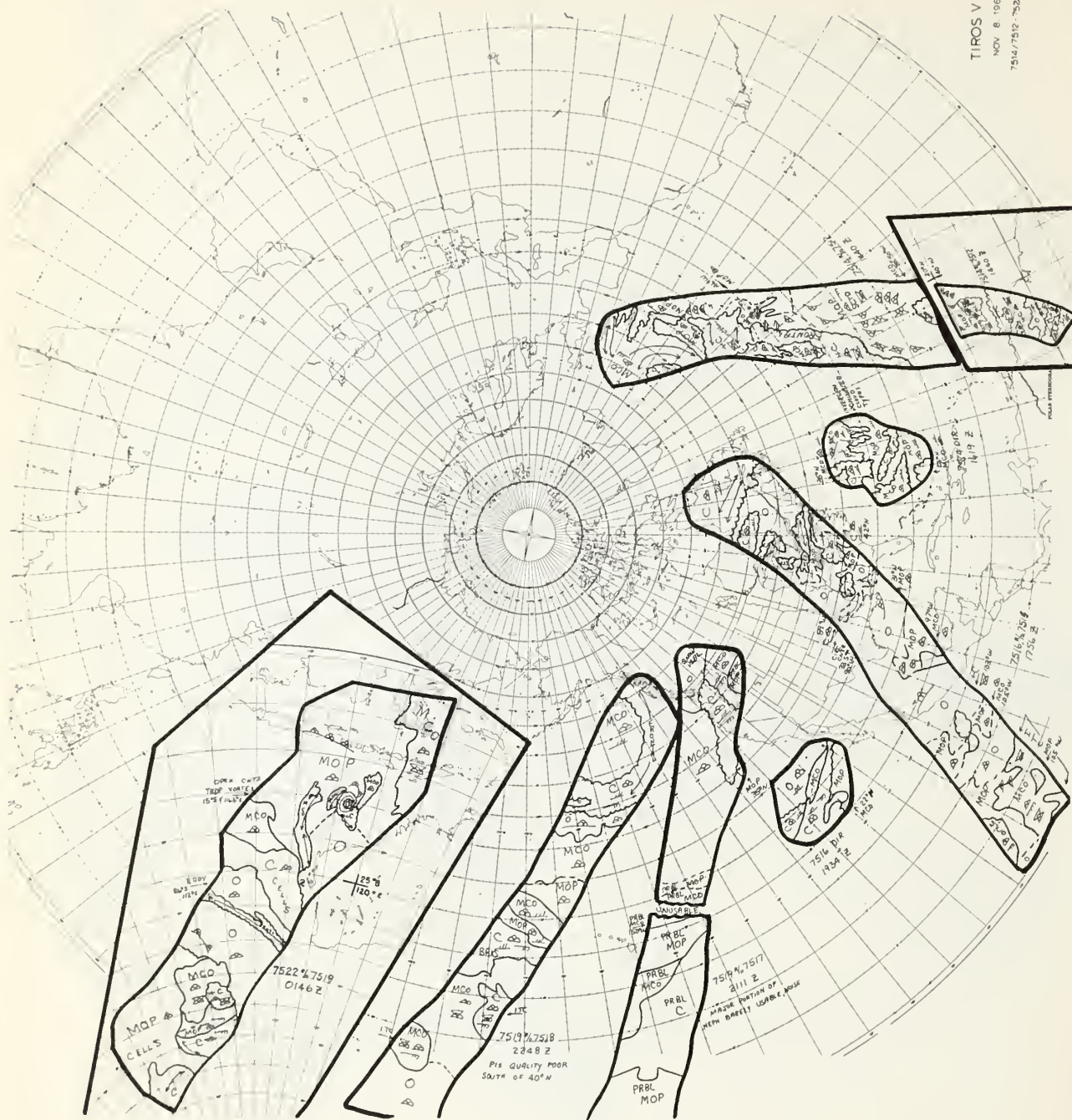
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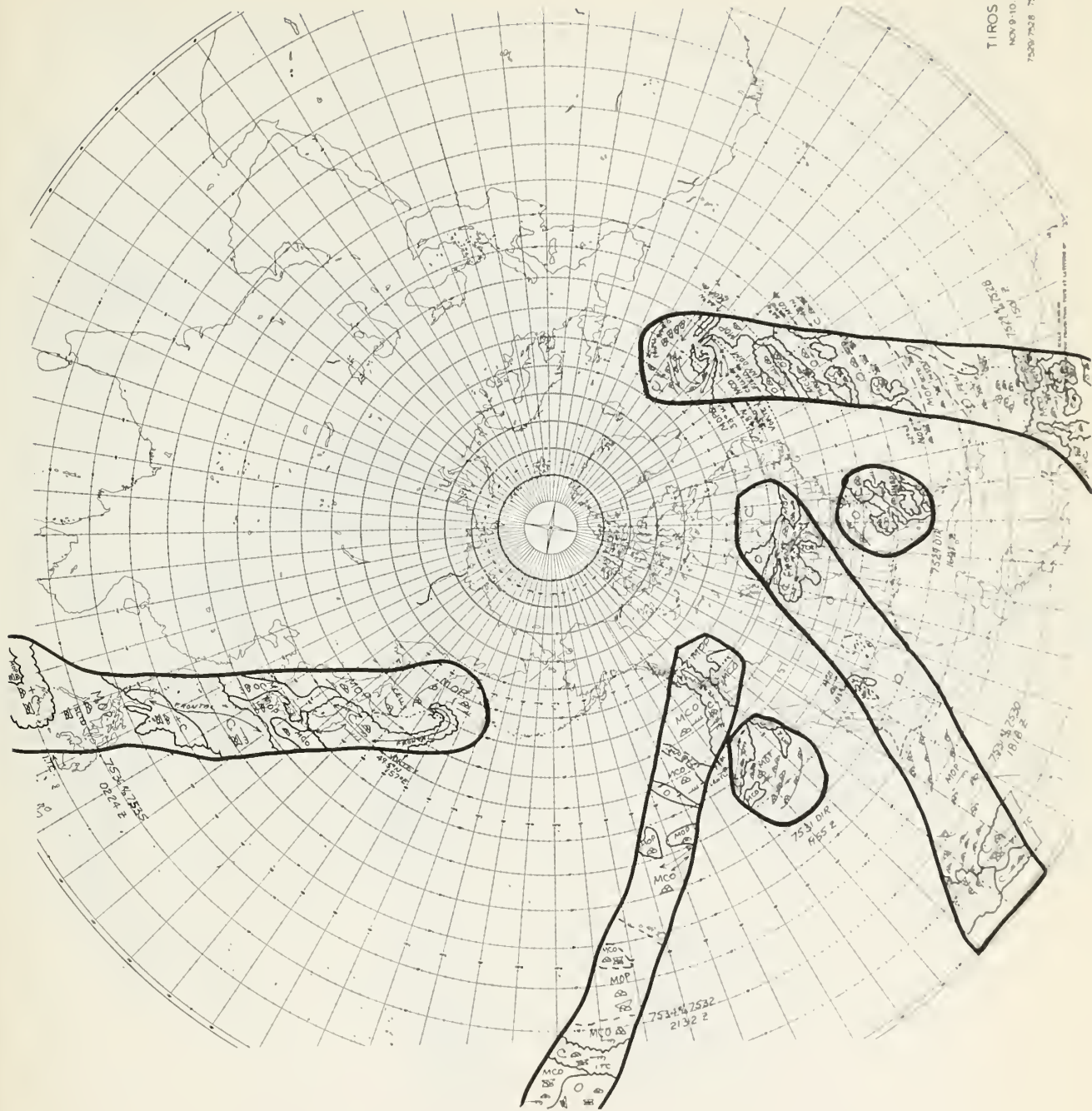
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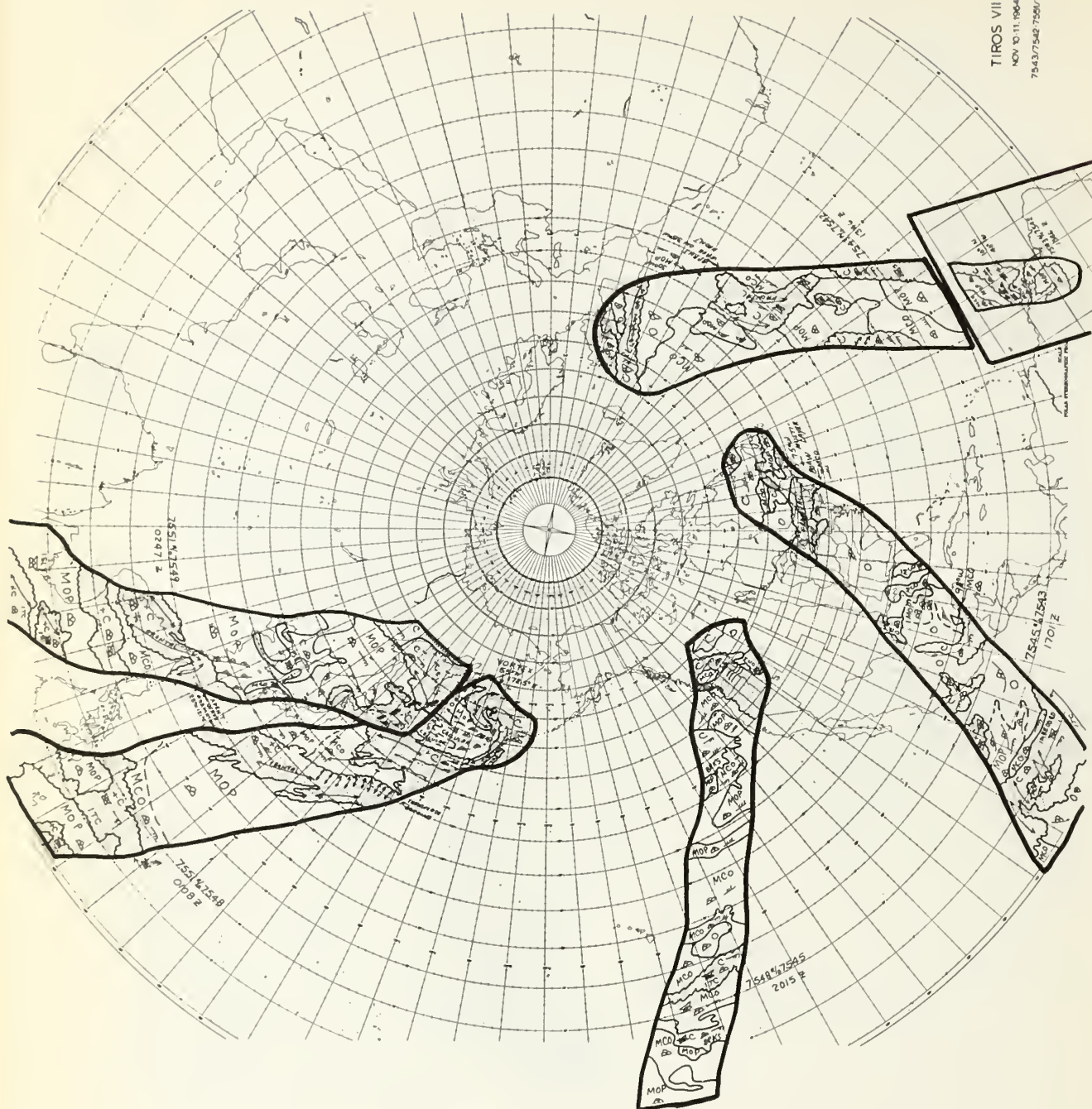
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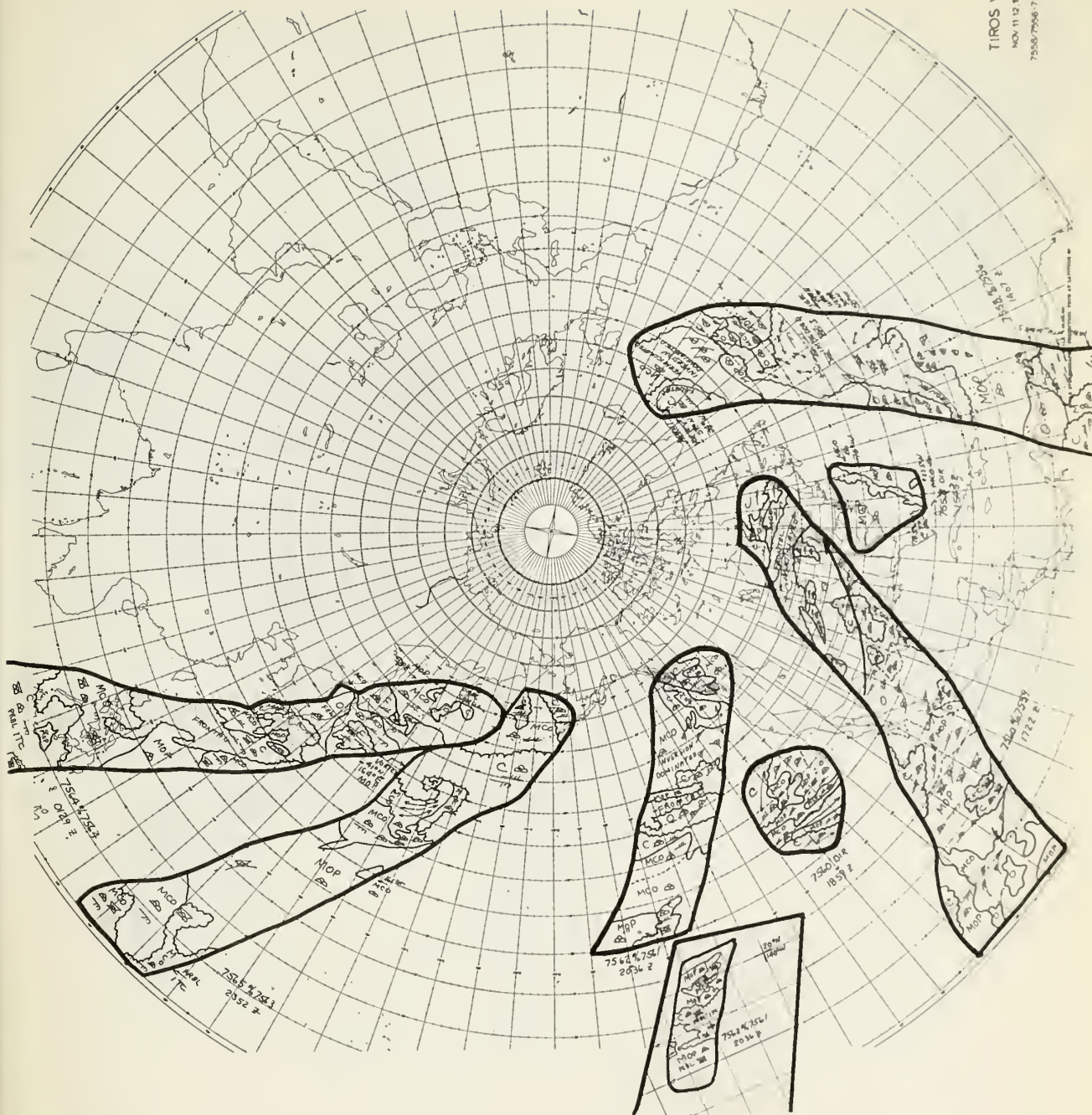
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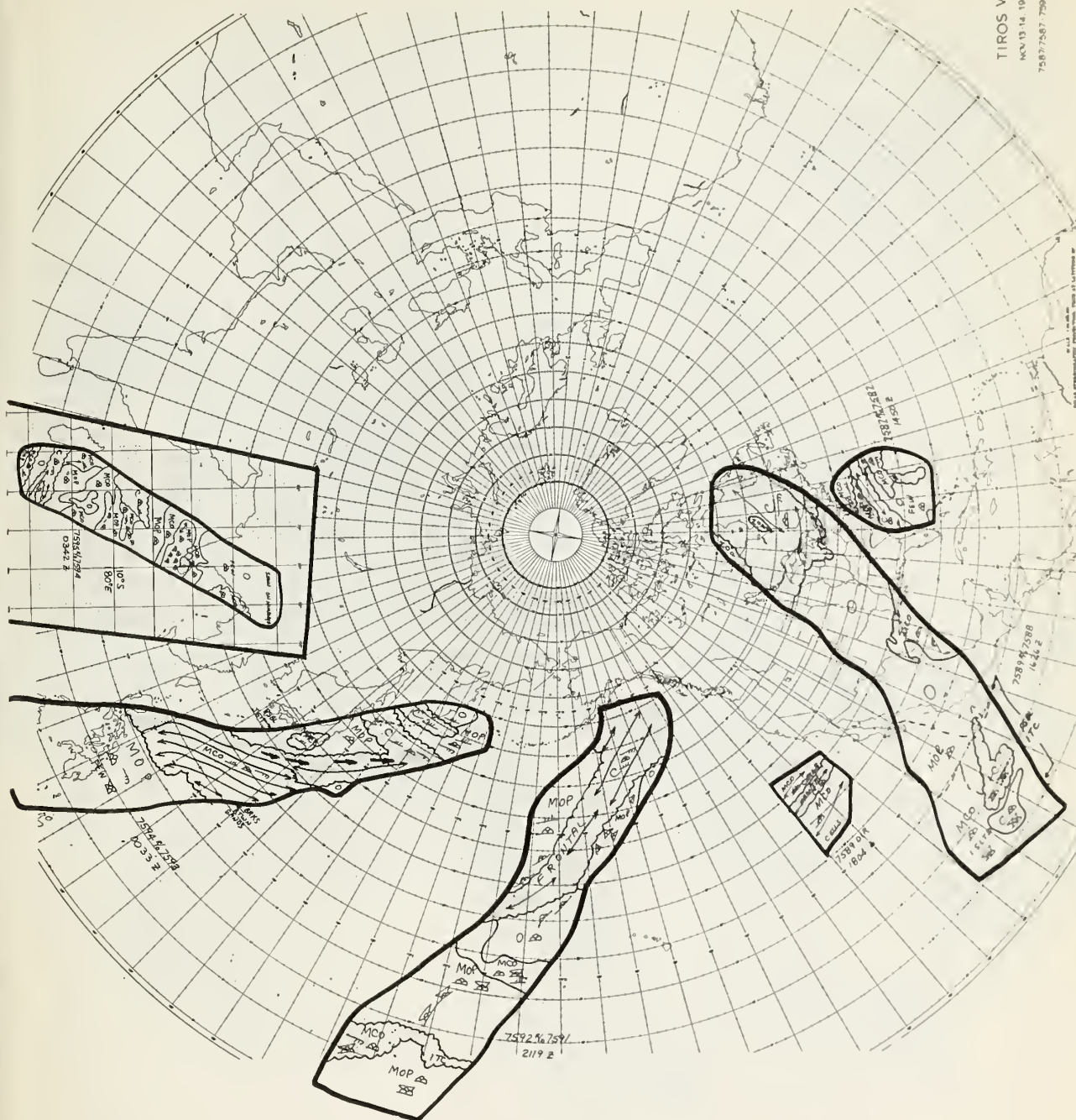


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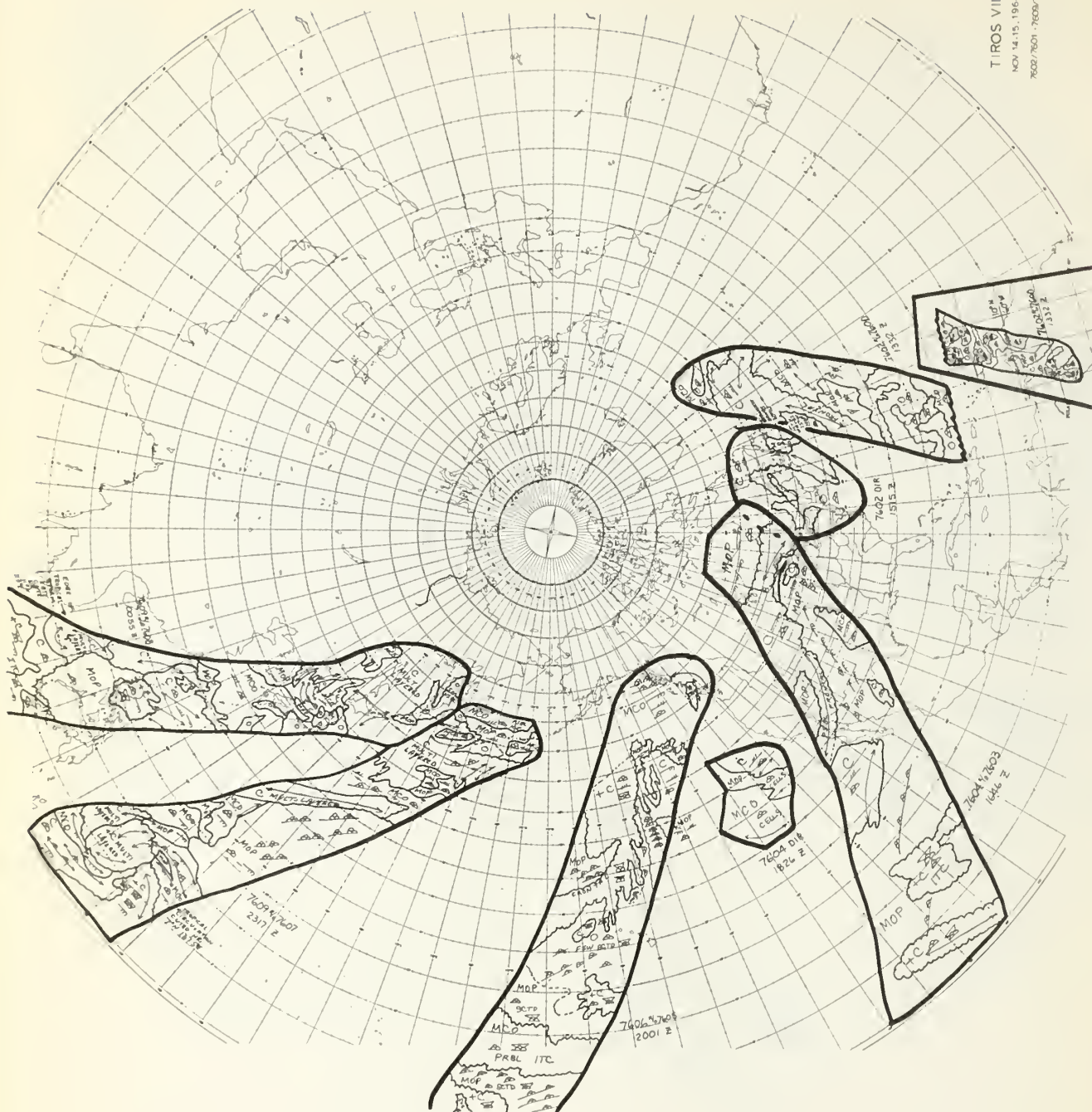


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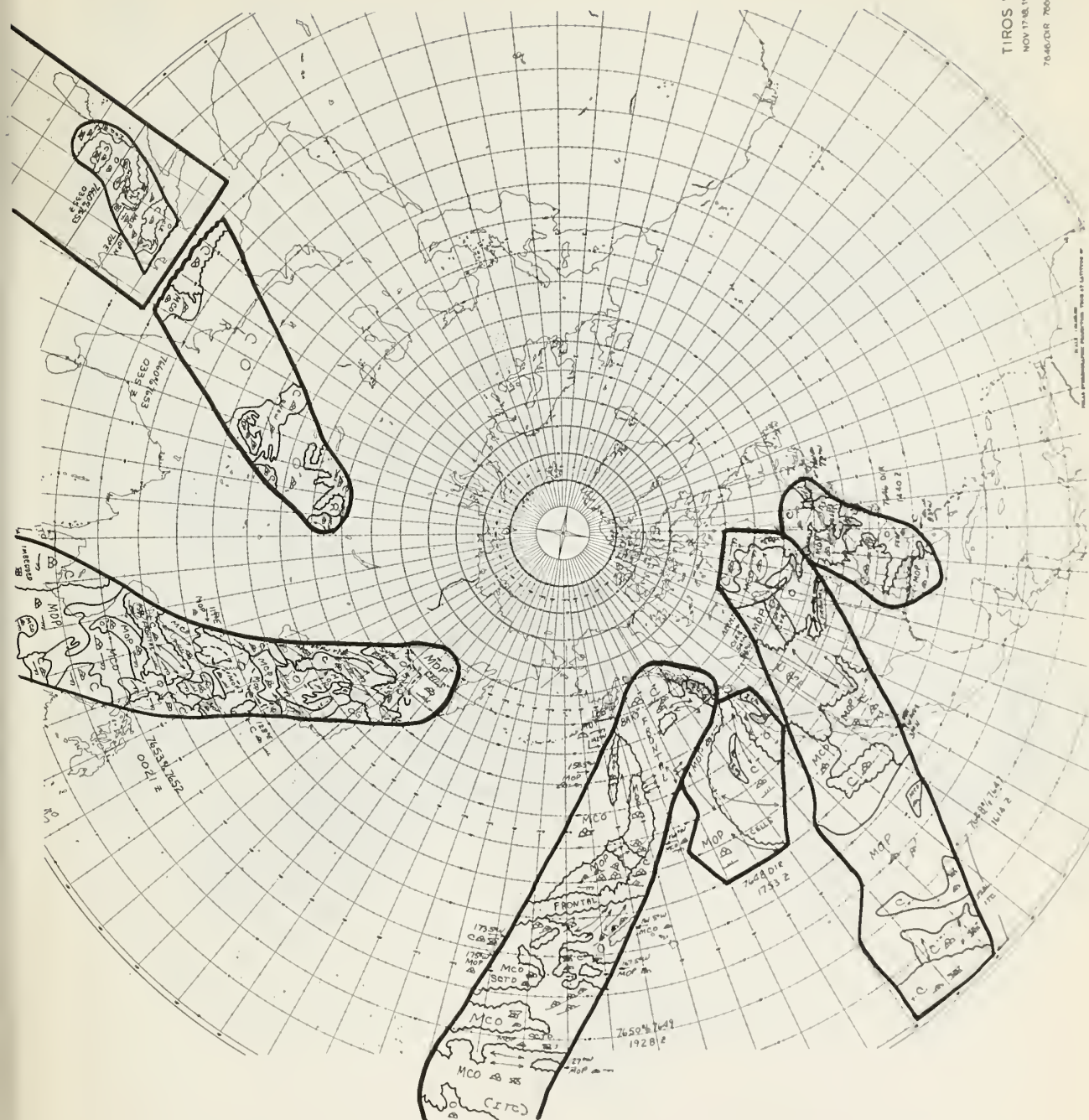


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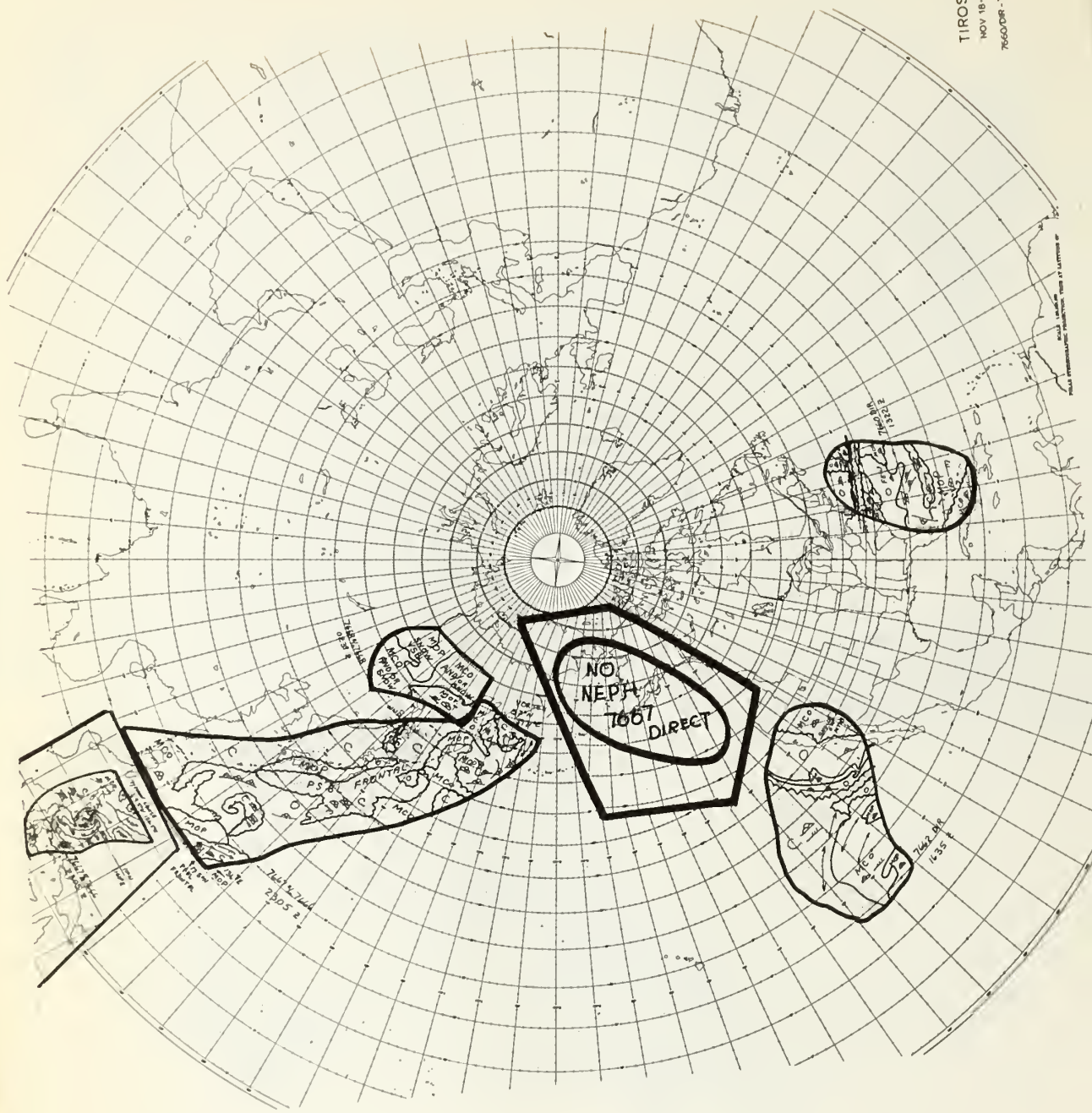
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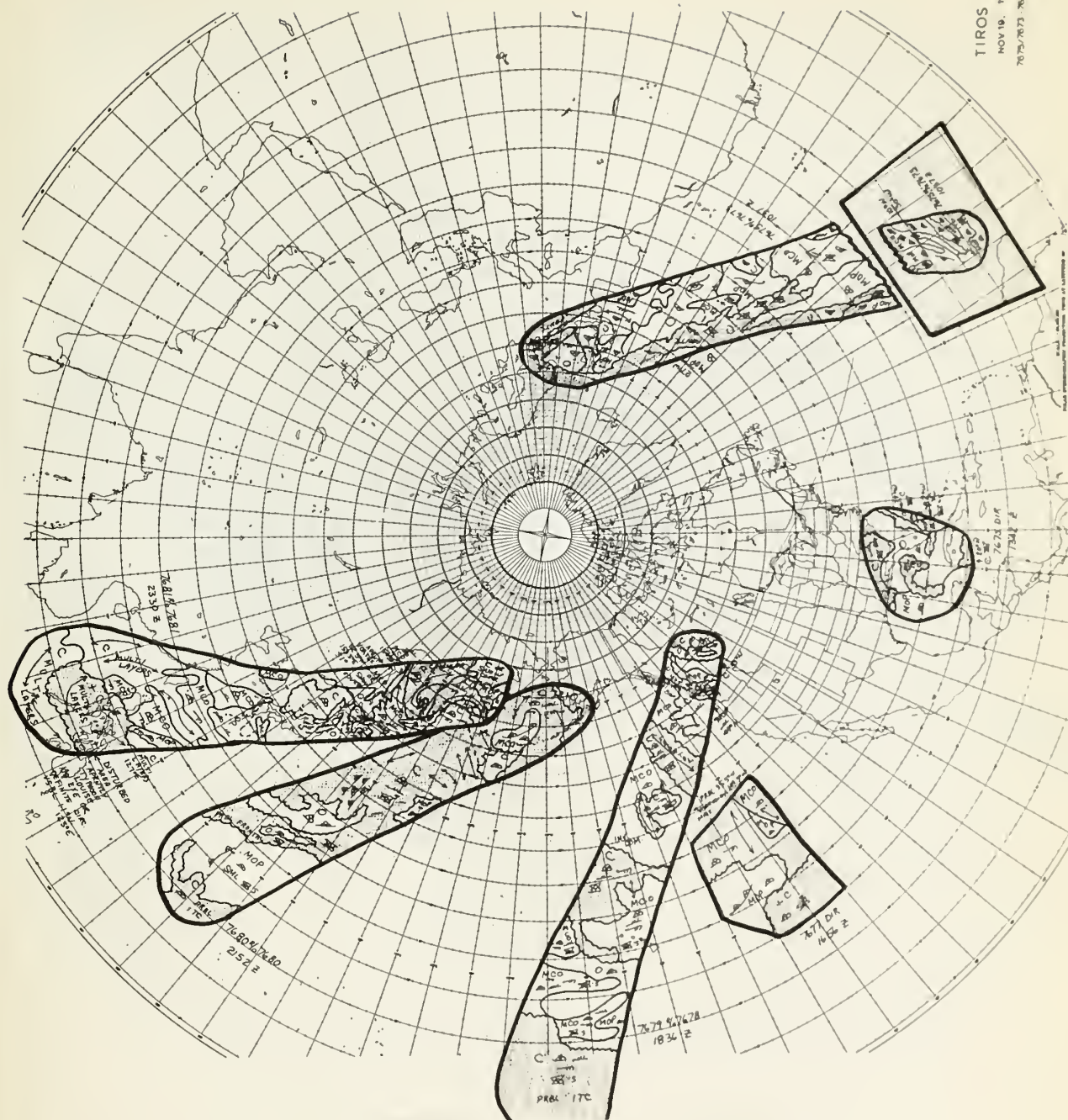
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 7646/CR 7660/7653



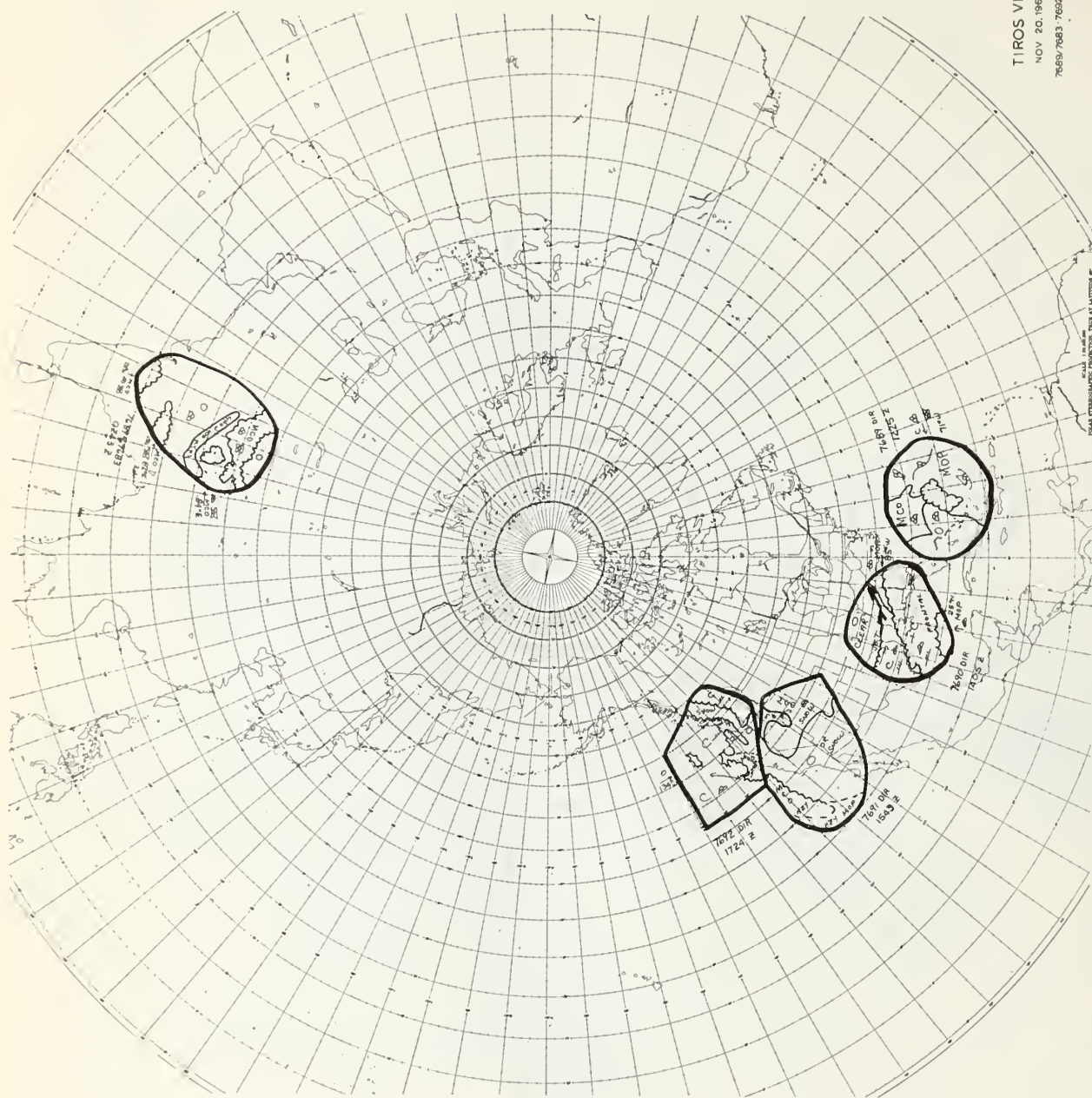
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7675/7673 - 7682/7681

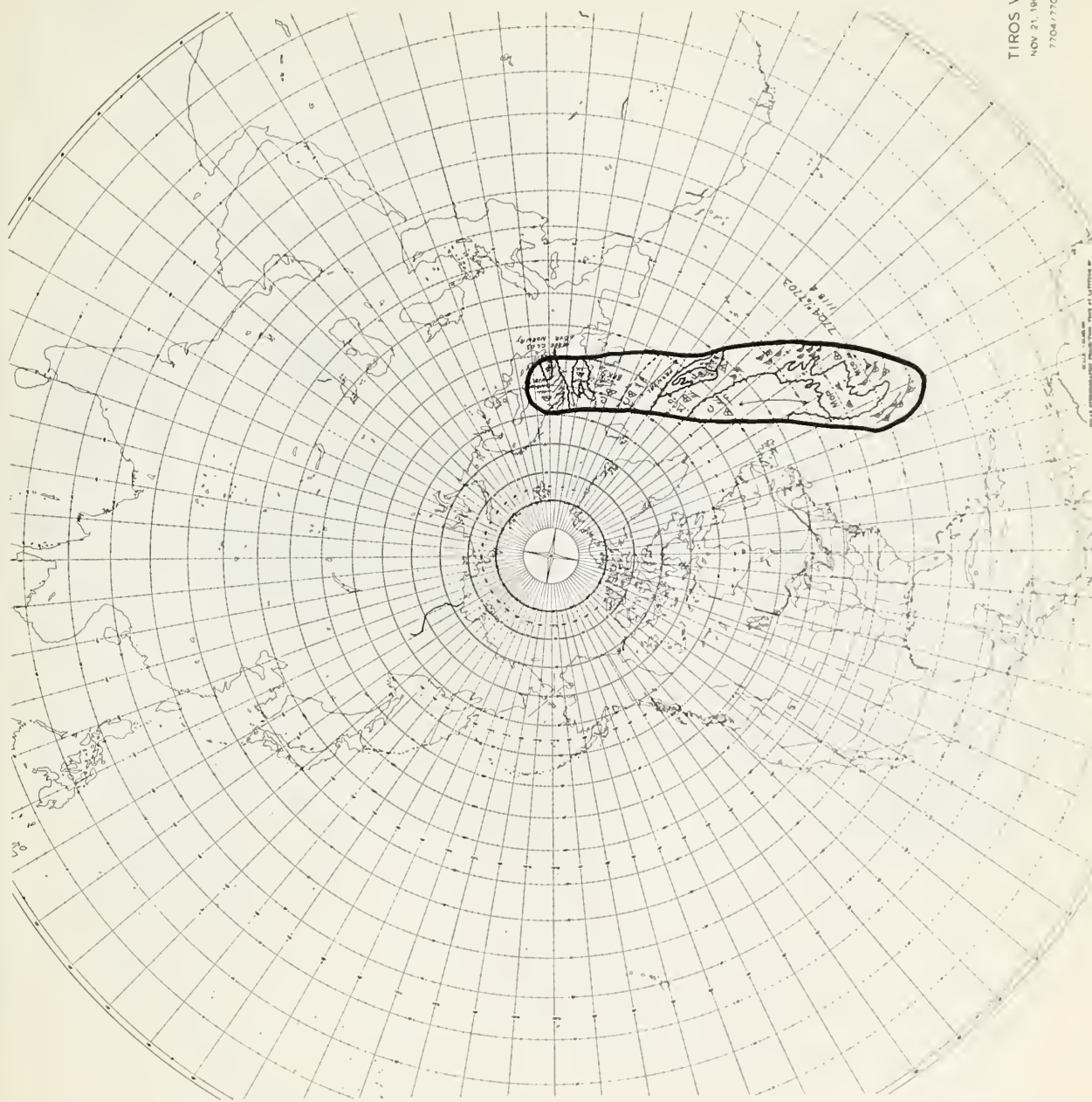


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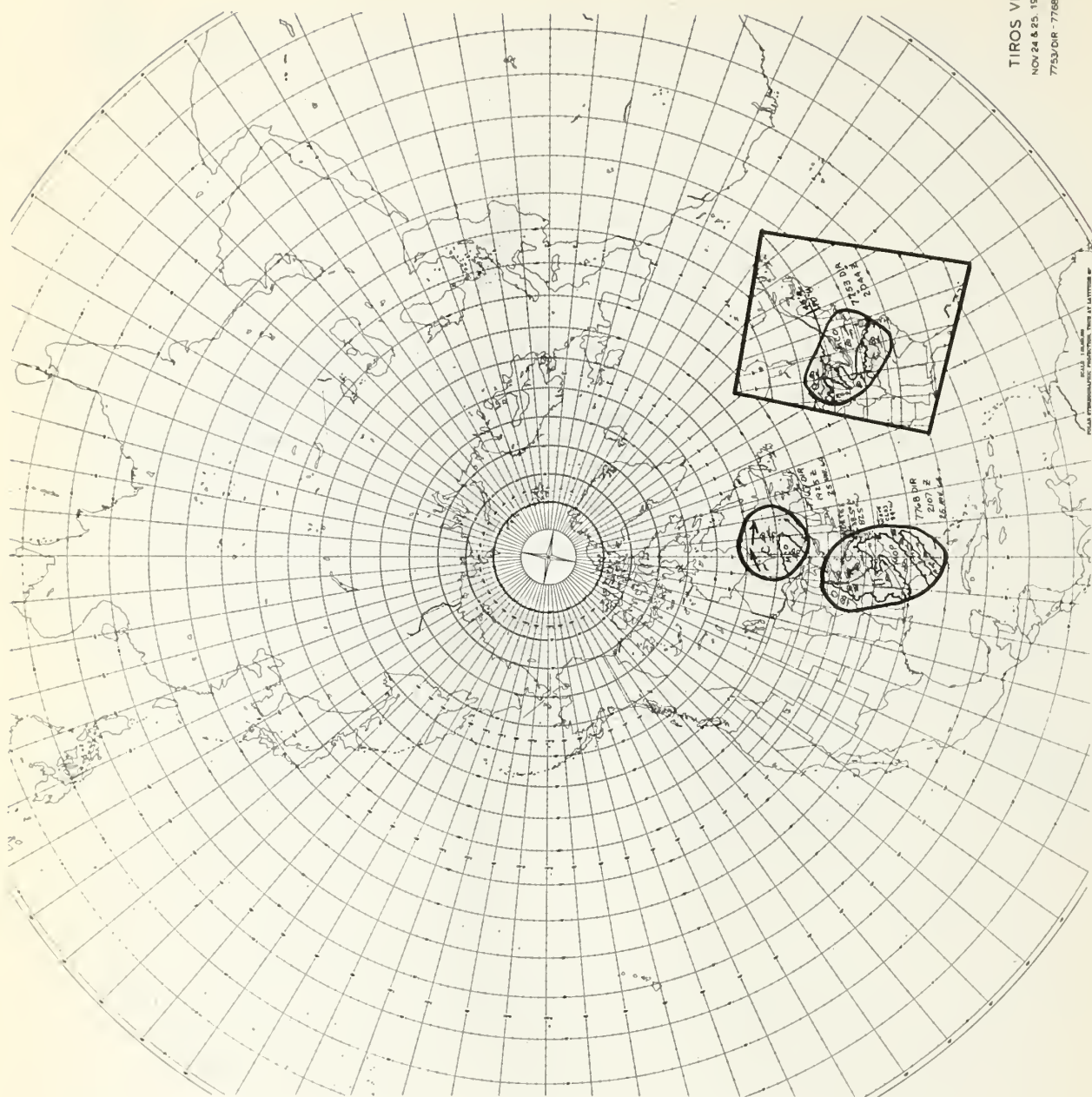


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7704/7703

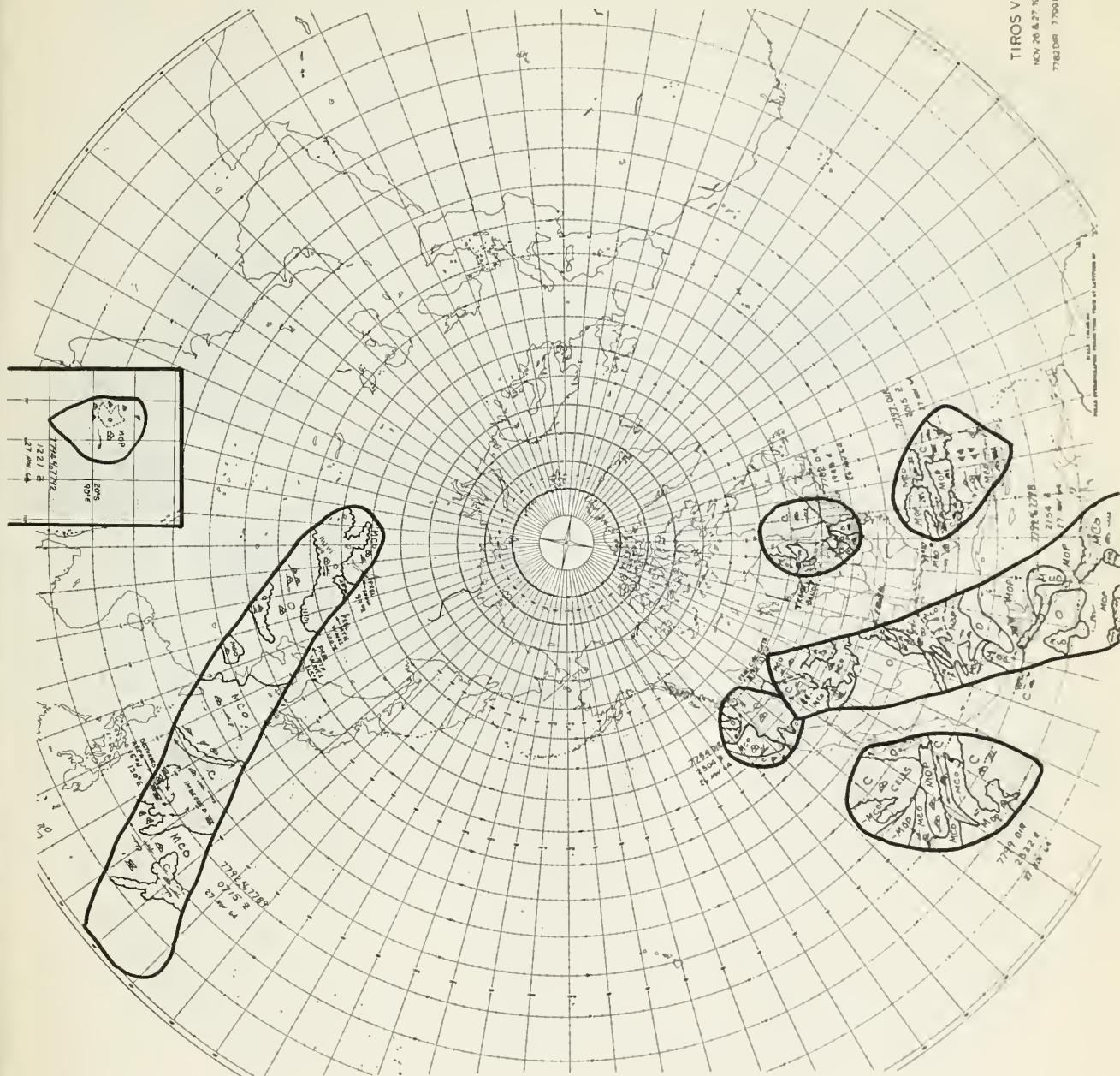


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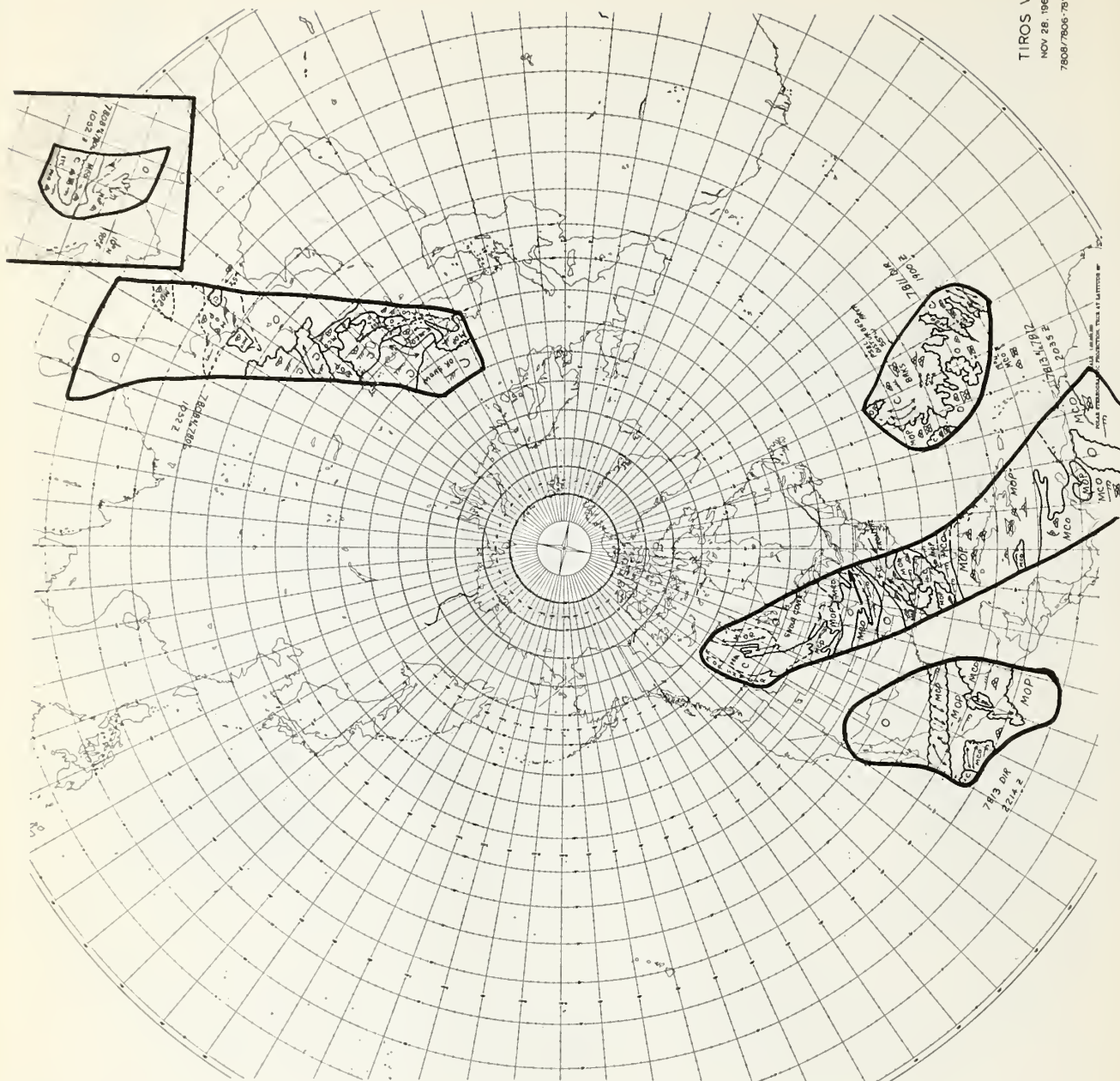


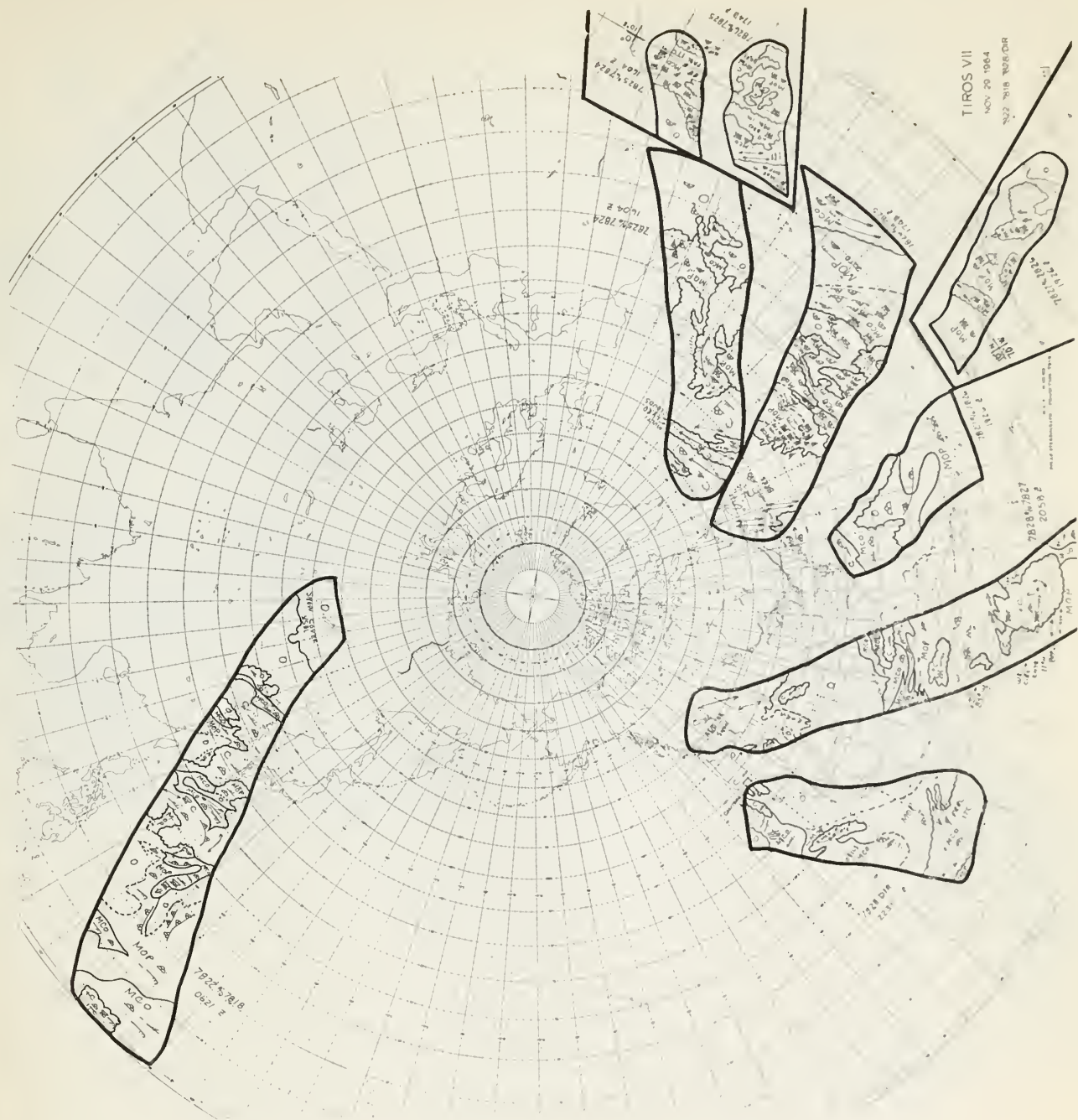
U.S. GOVERNMENT PRINTING OFFICE: 1961 O - 544-000

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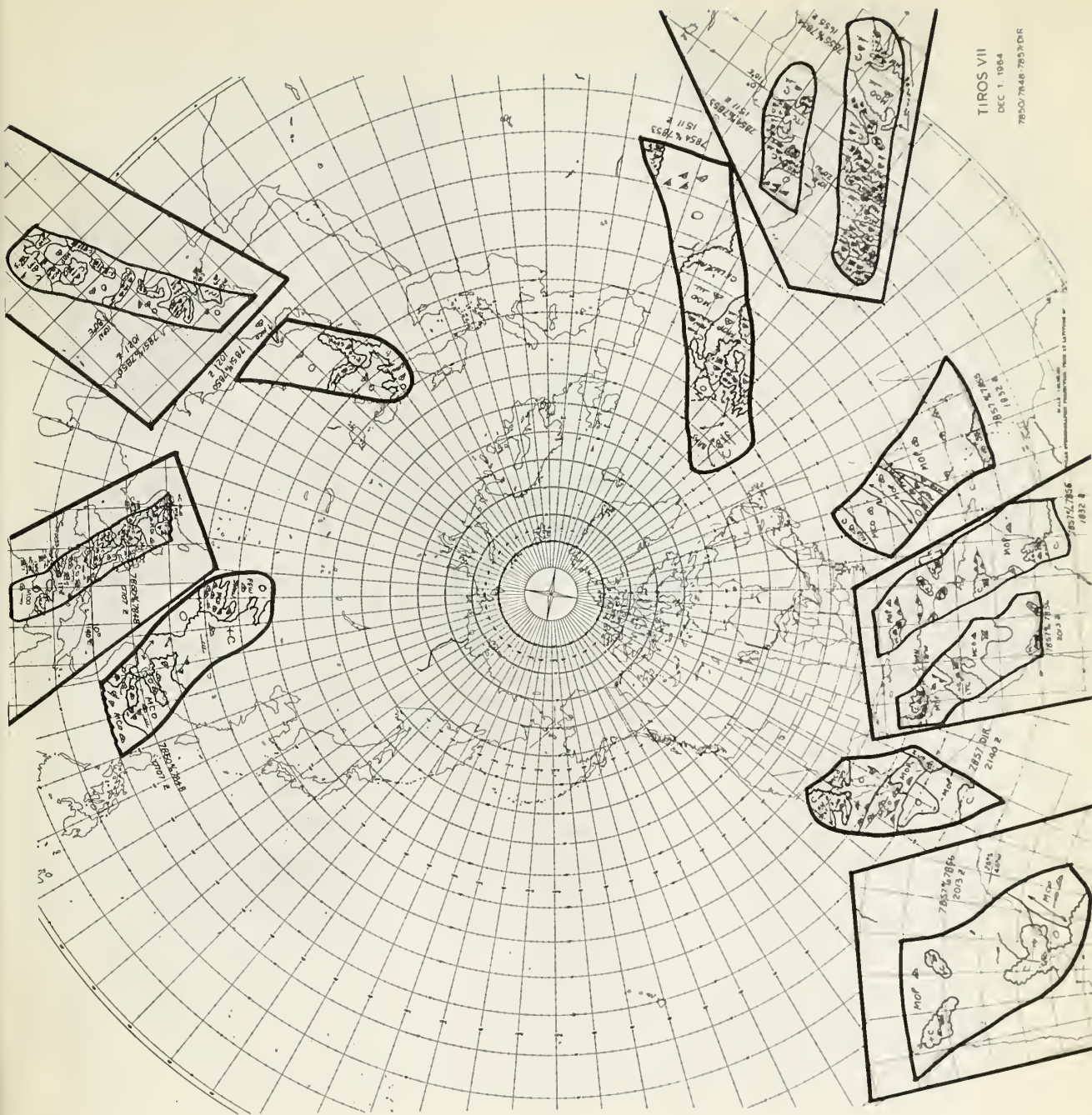


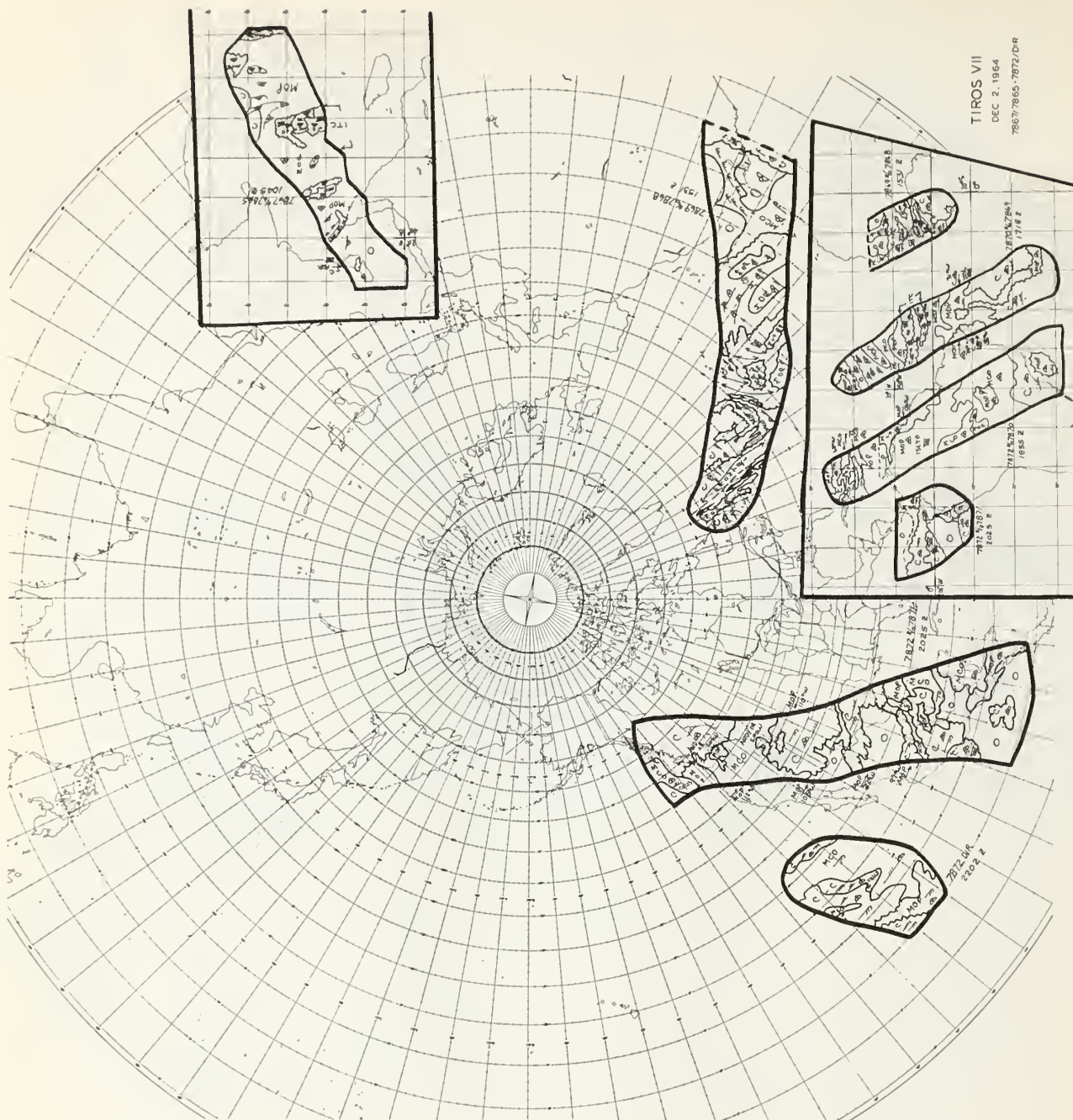
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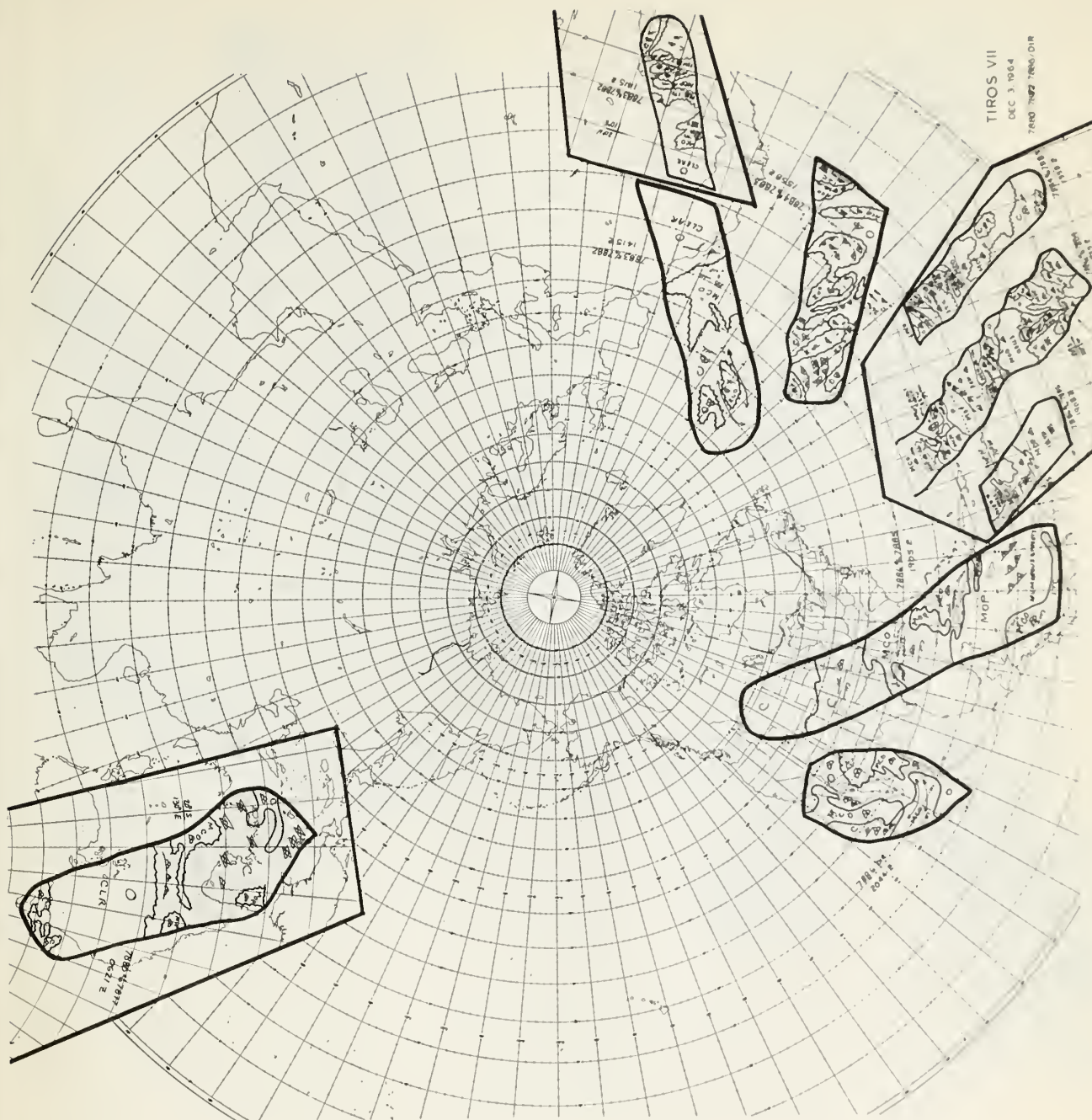


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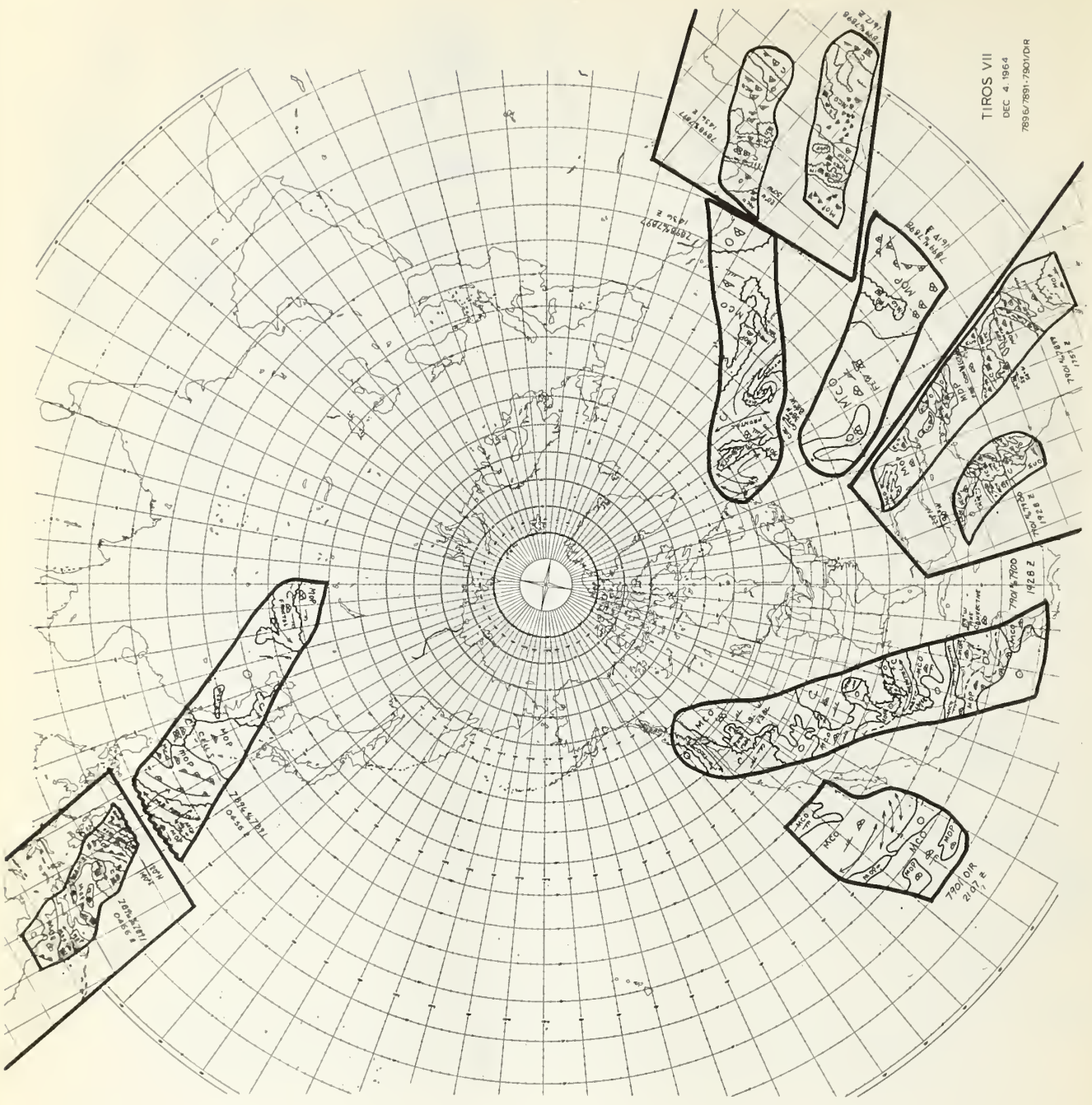
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DEC 2, 1964

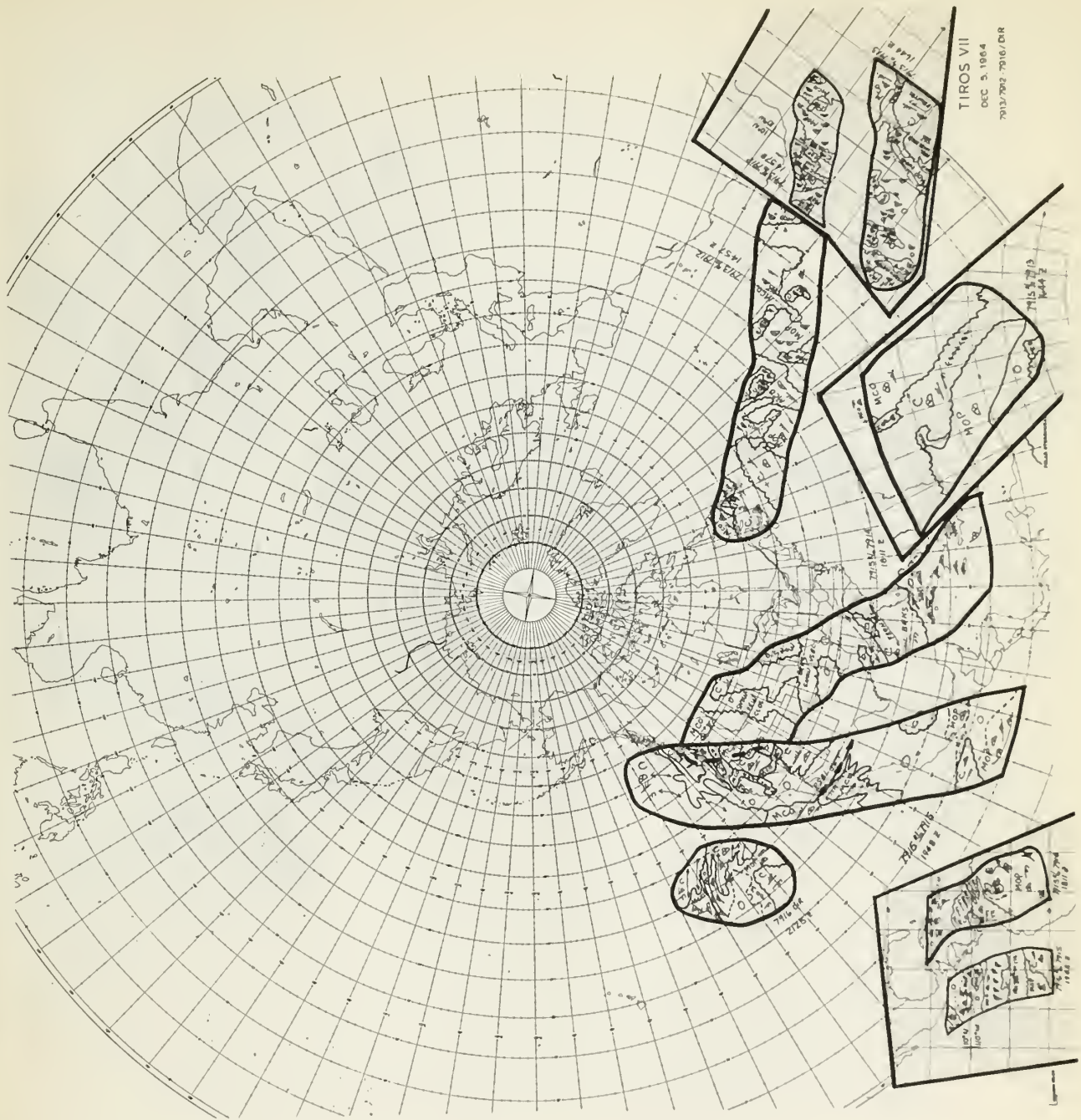
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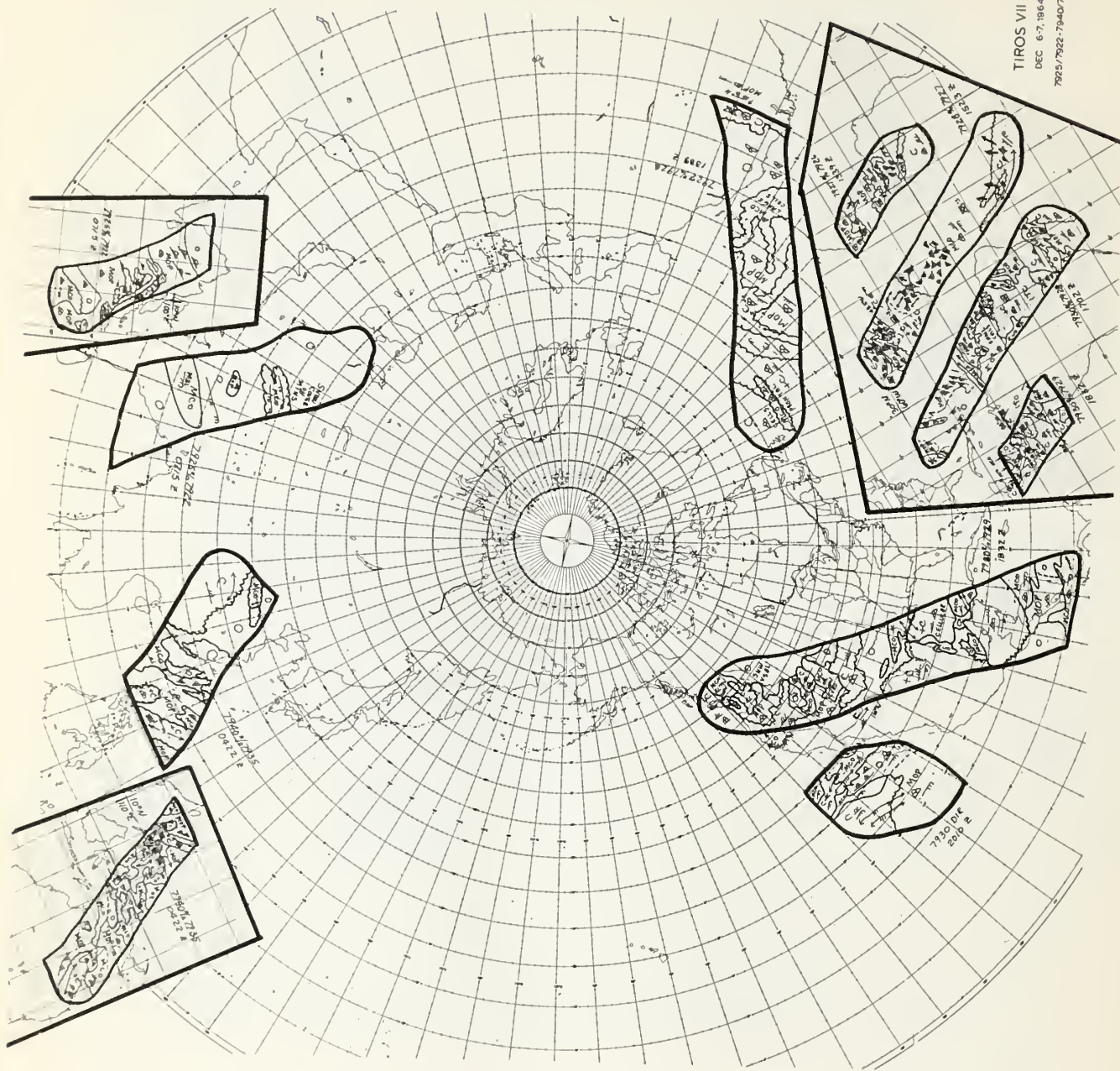


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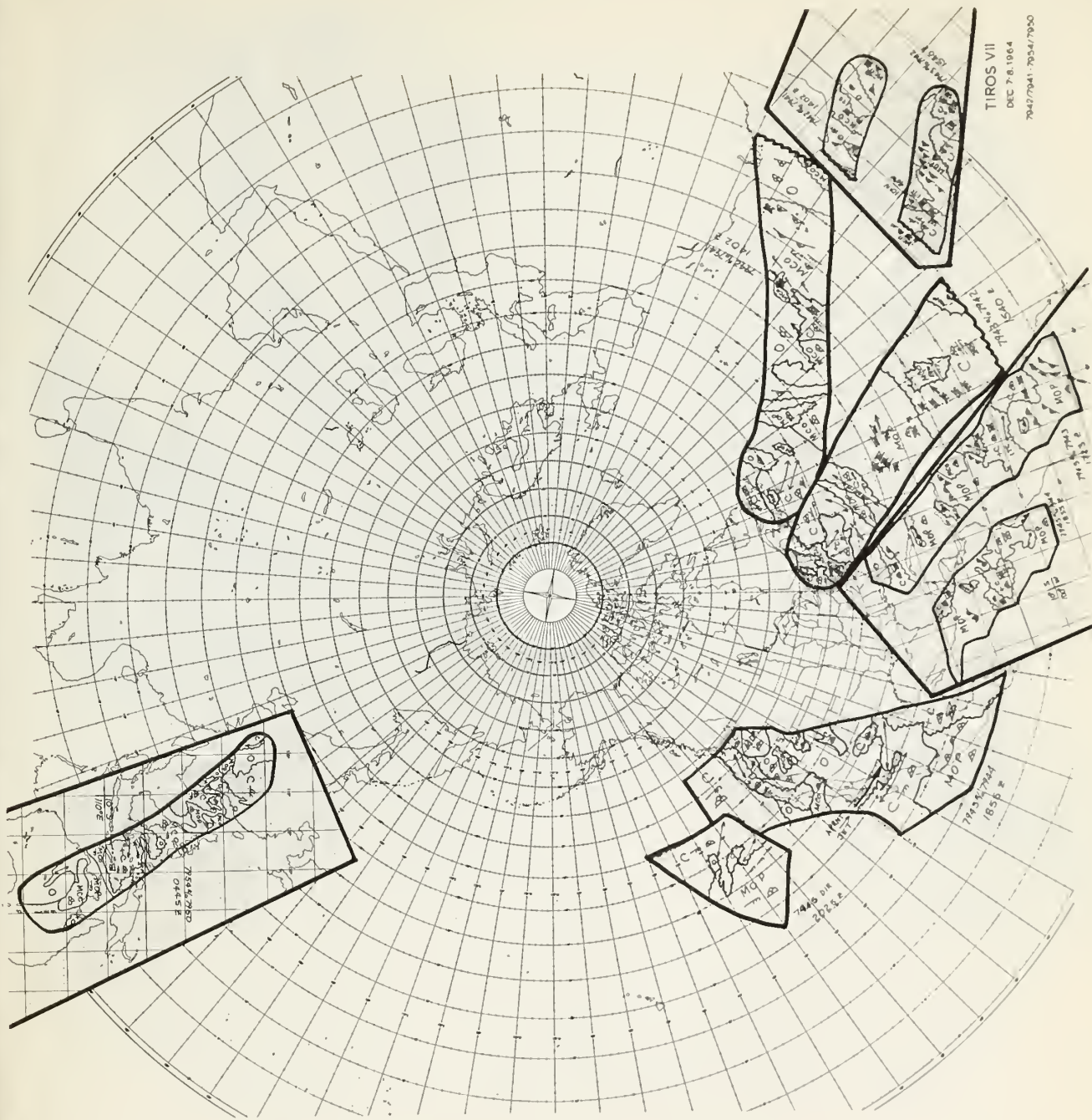
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DEC 6-7, 1964
7925/7932-7940/7935

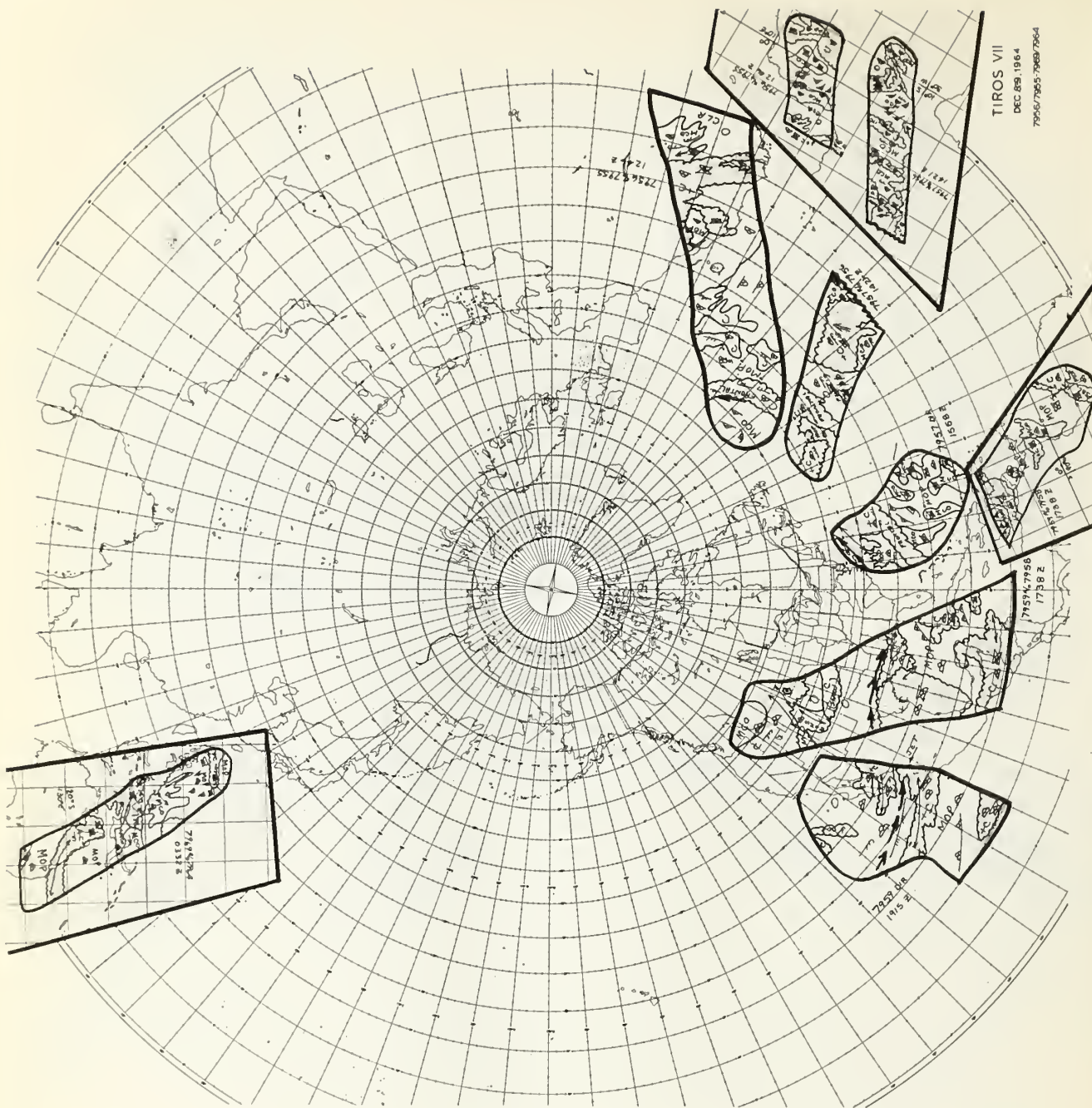


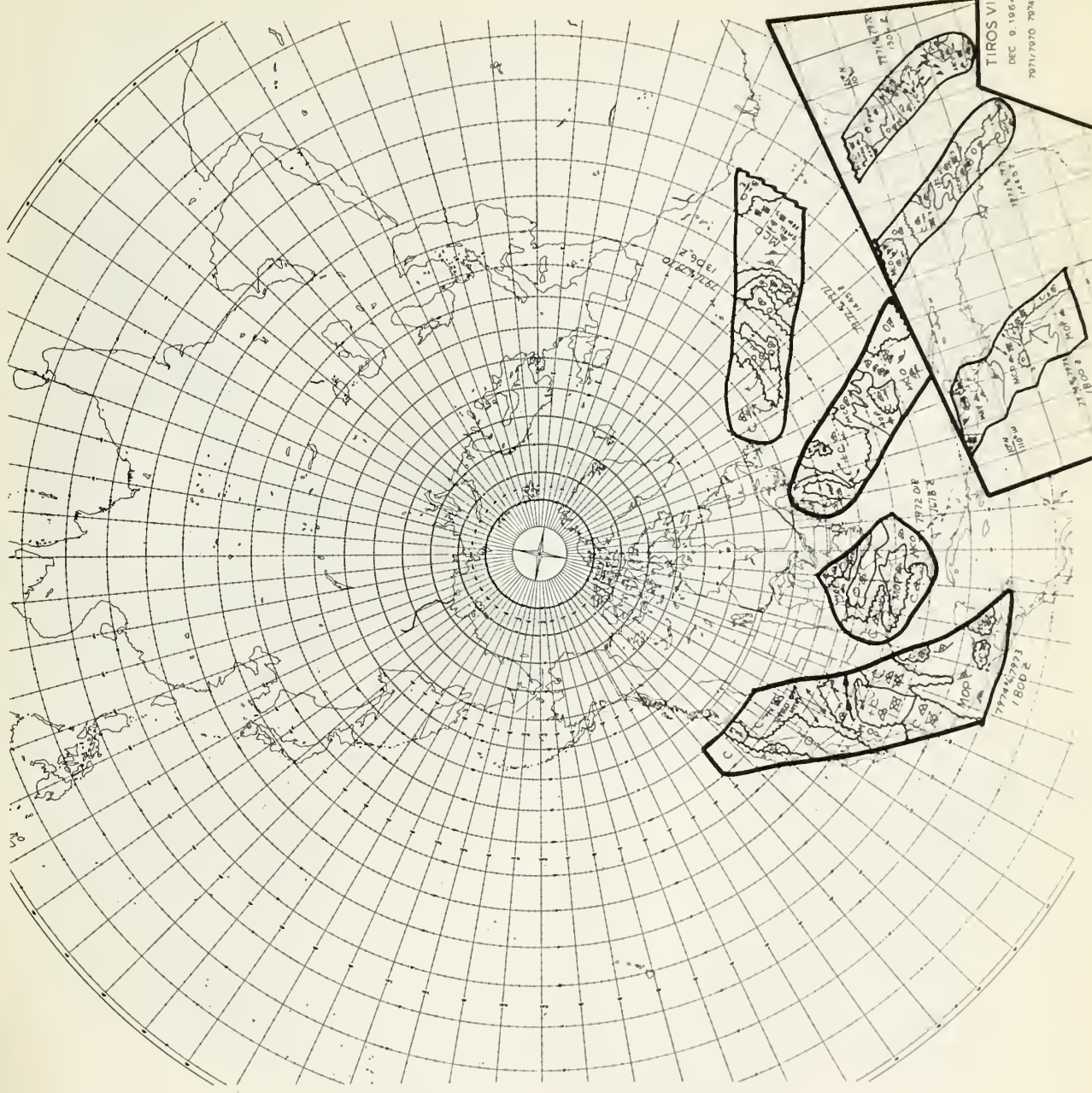
TIROS VII

DEC 7-8, 1964

7042/7041-7034/7030

7956/7955-7969/7964



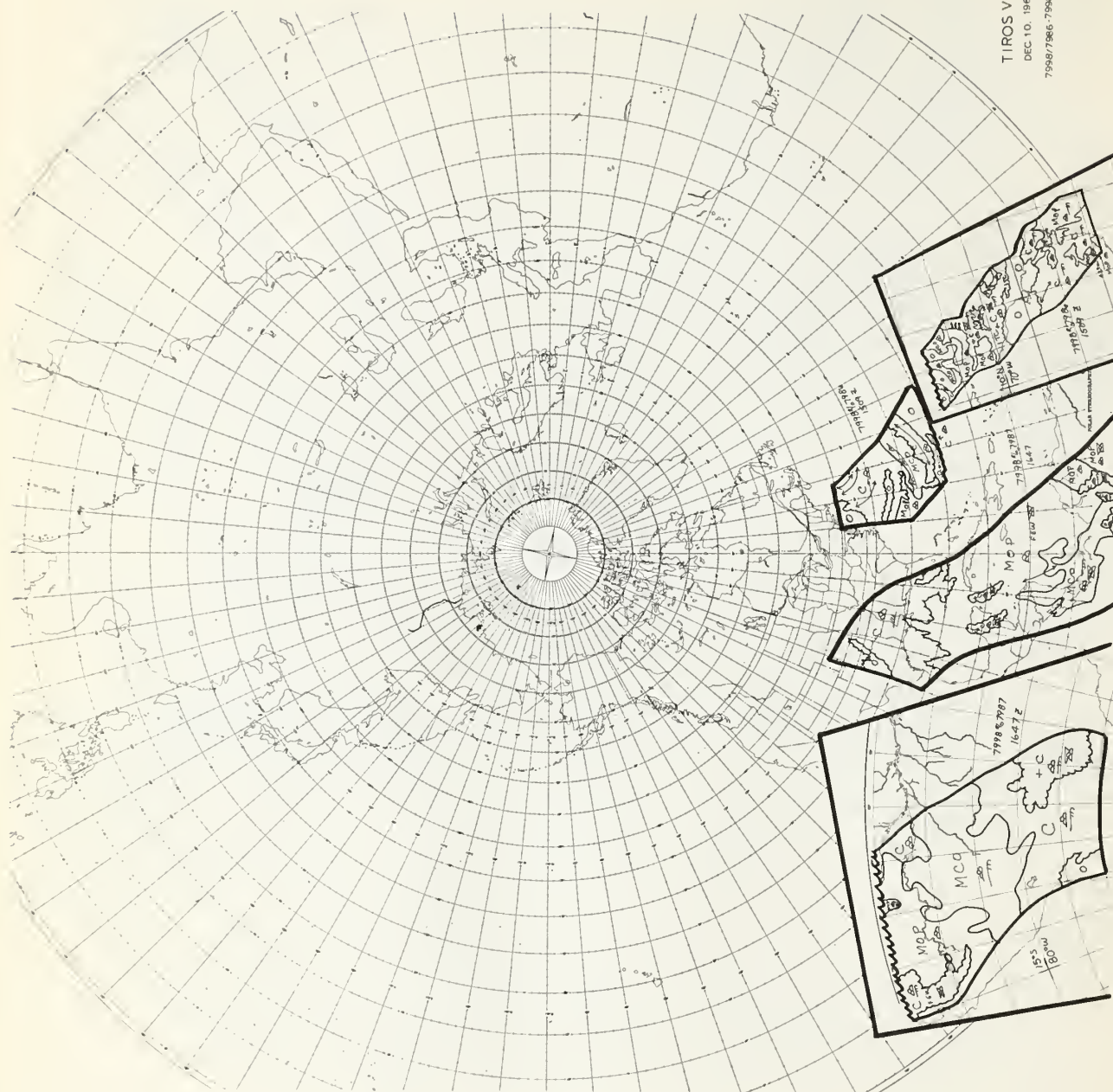


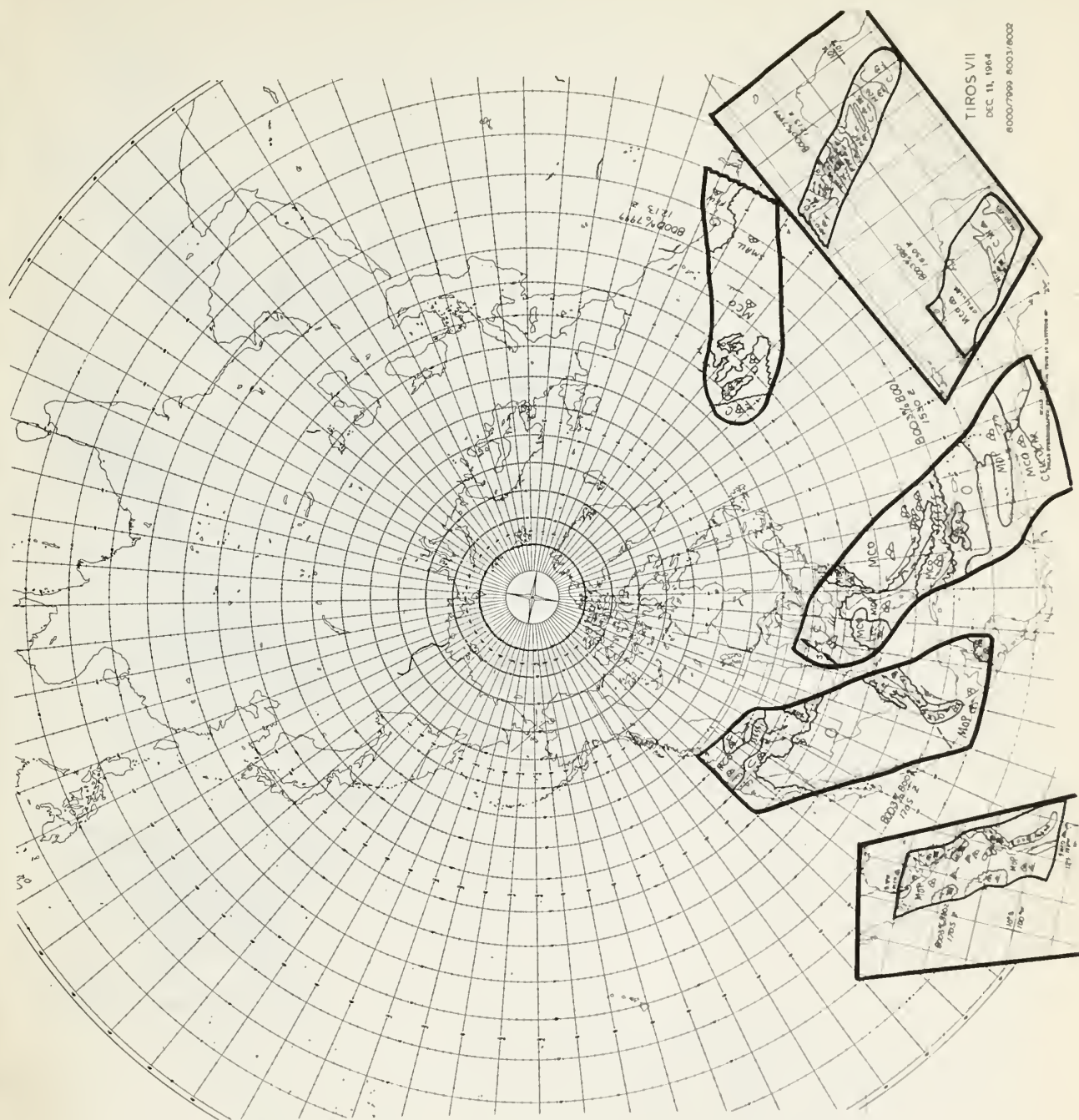
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DEC 9 1964

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7998/7986-7998/7987





TIROS VII

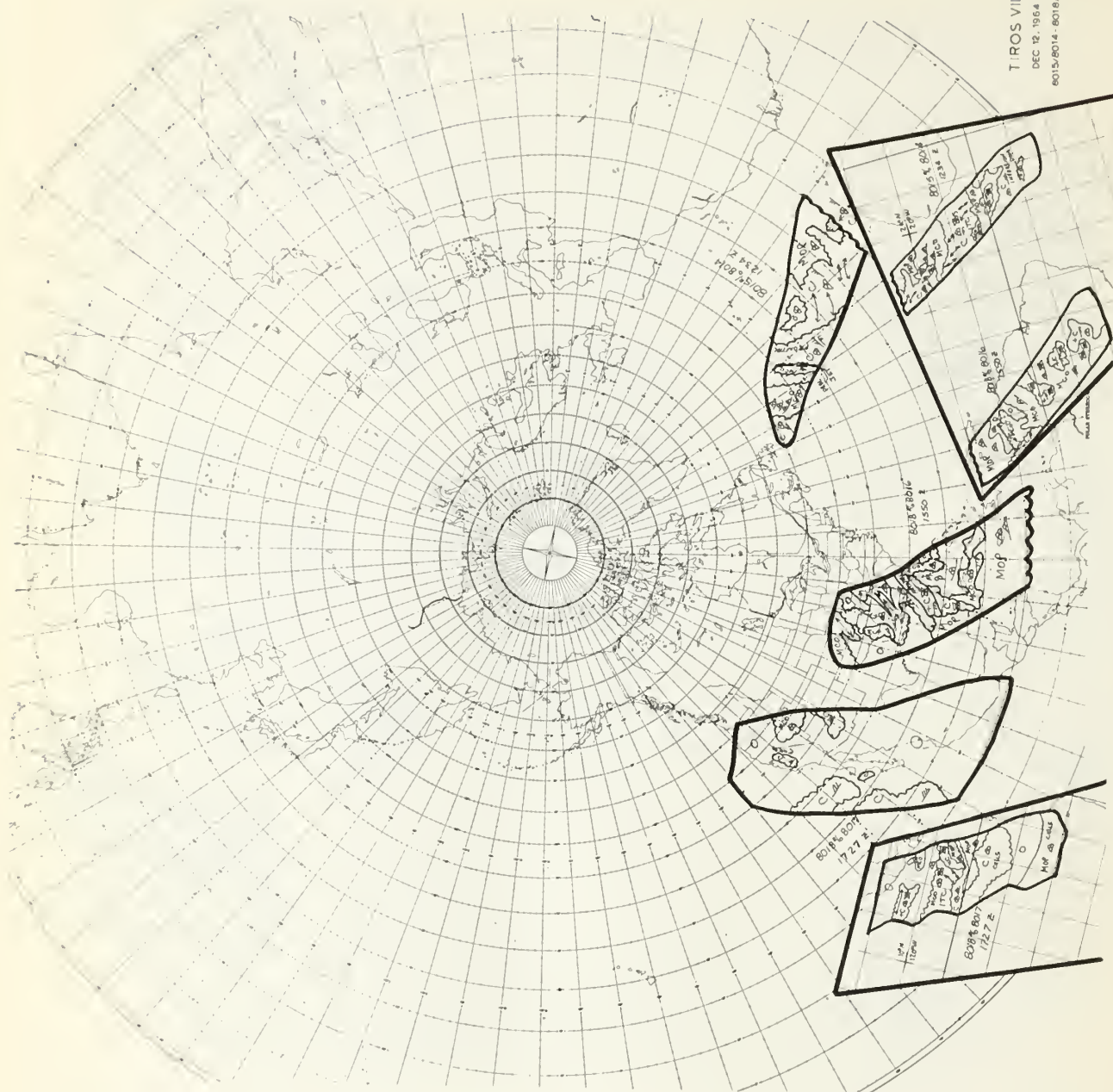
DEC 11, 1964

6000/7999 6003/8002

TIROS VII

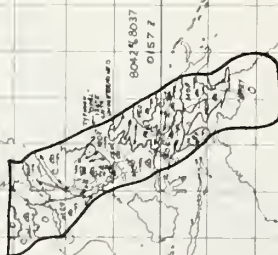
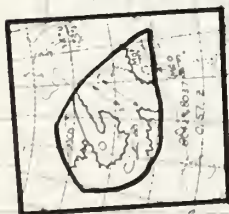
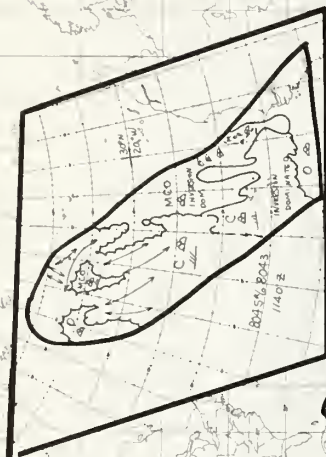
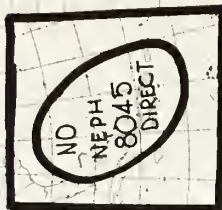
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6015/6014 - 6018/6017



TIROS VII
DEC 14. 1964
8042/8037-8047/8045

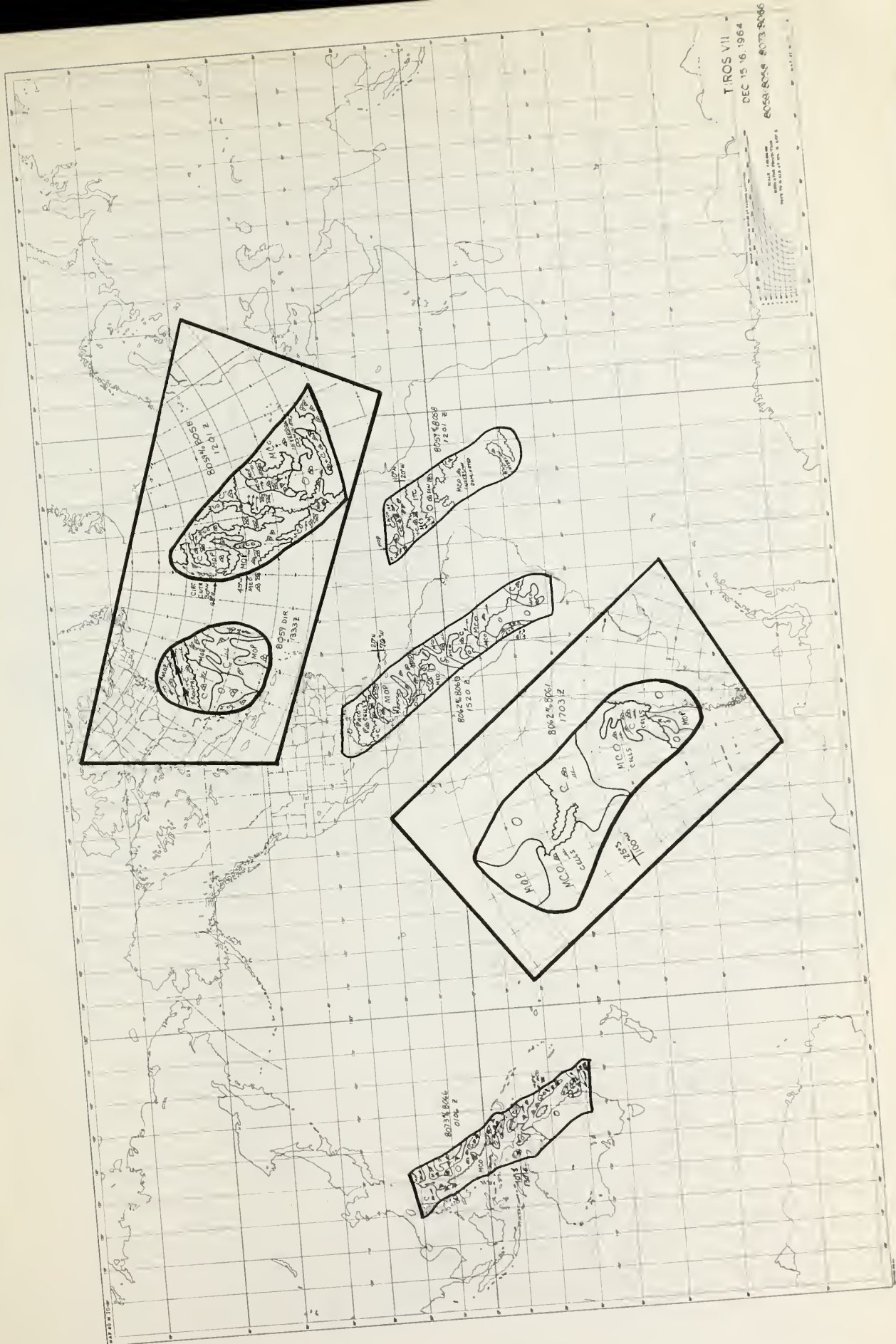
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SCALE 100 up and 100
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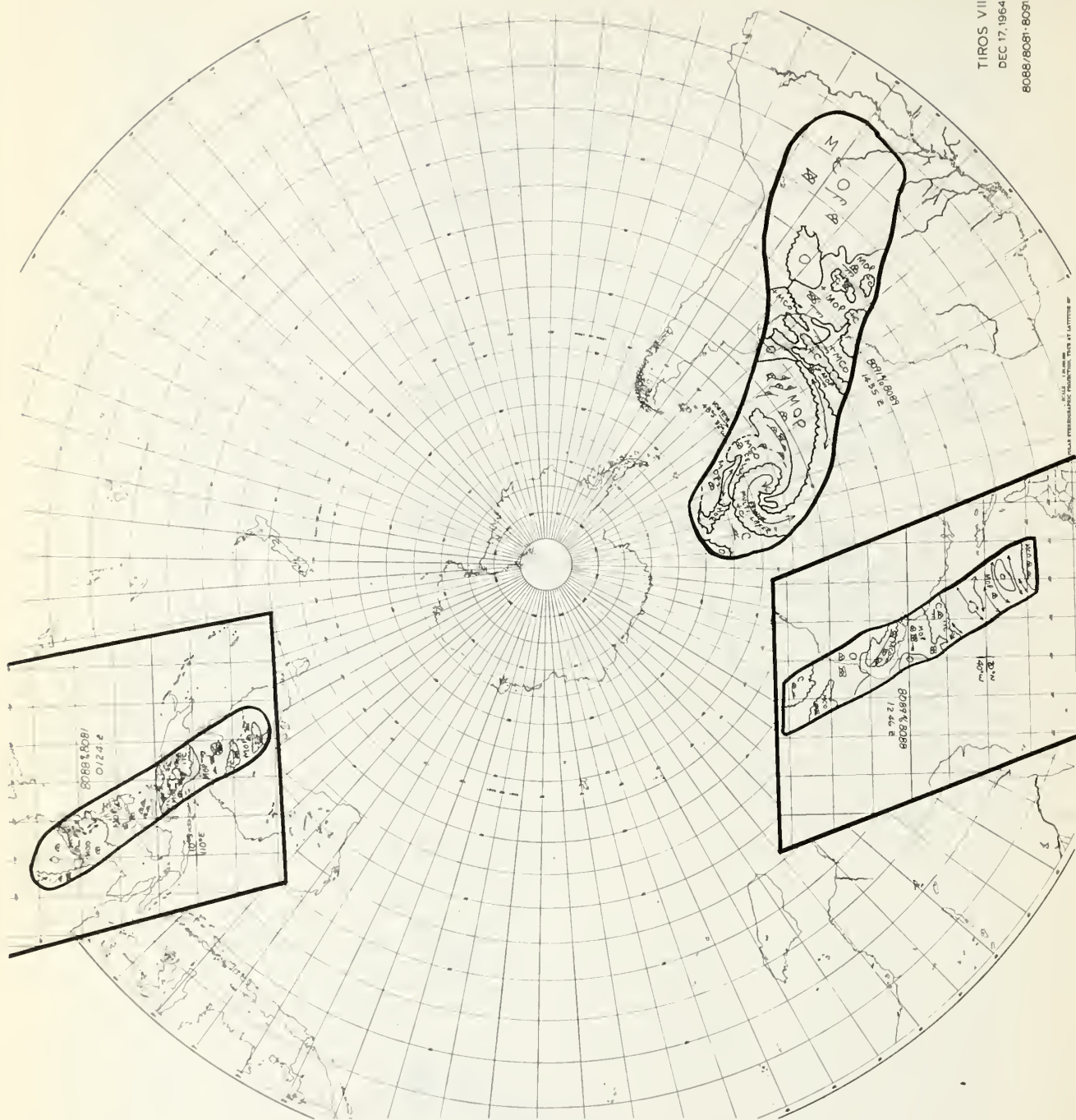
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DEC 15 16 1964

DEC 15 '6. 1964

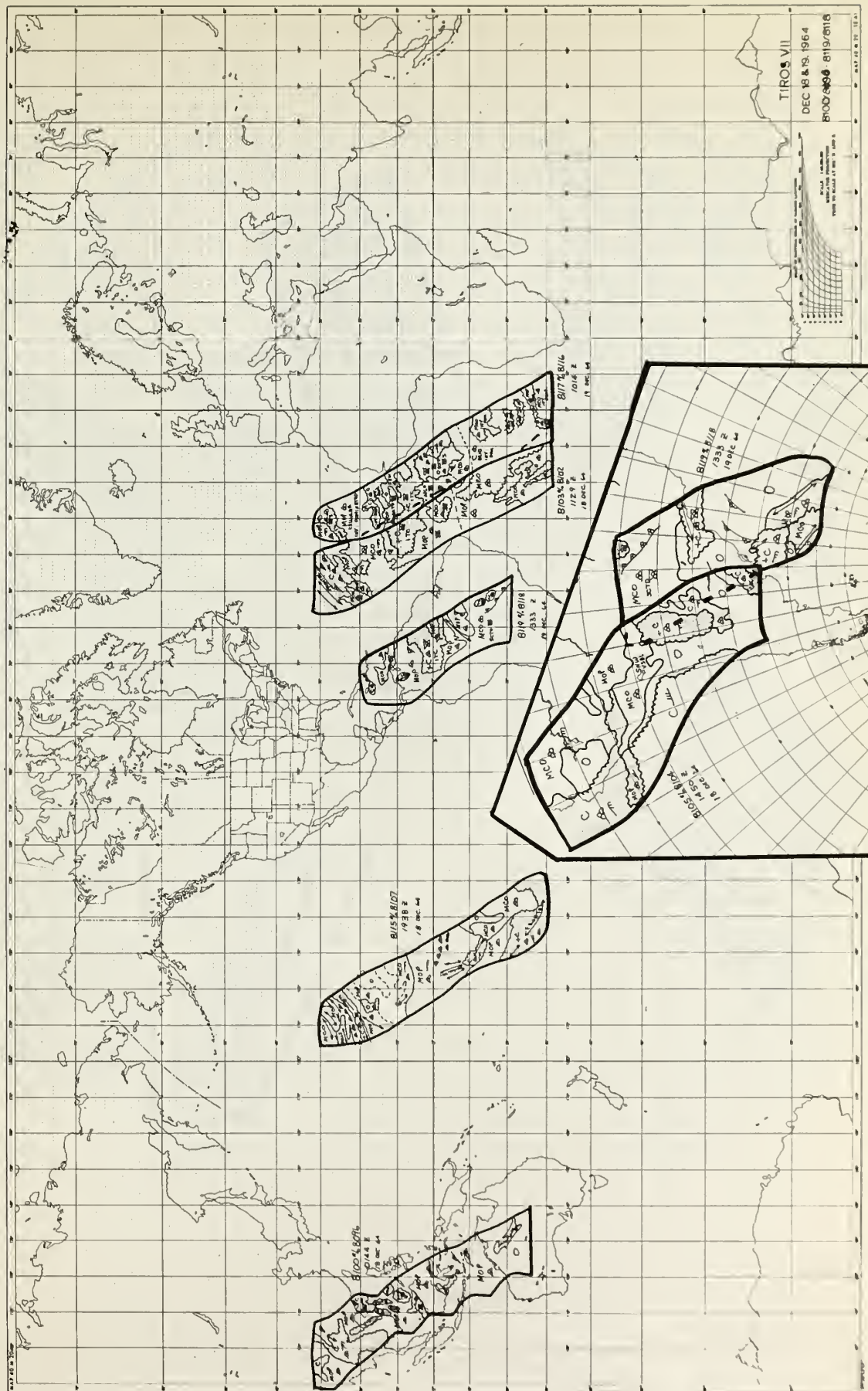
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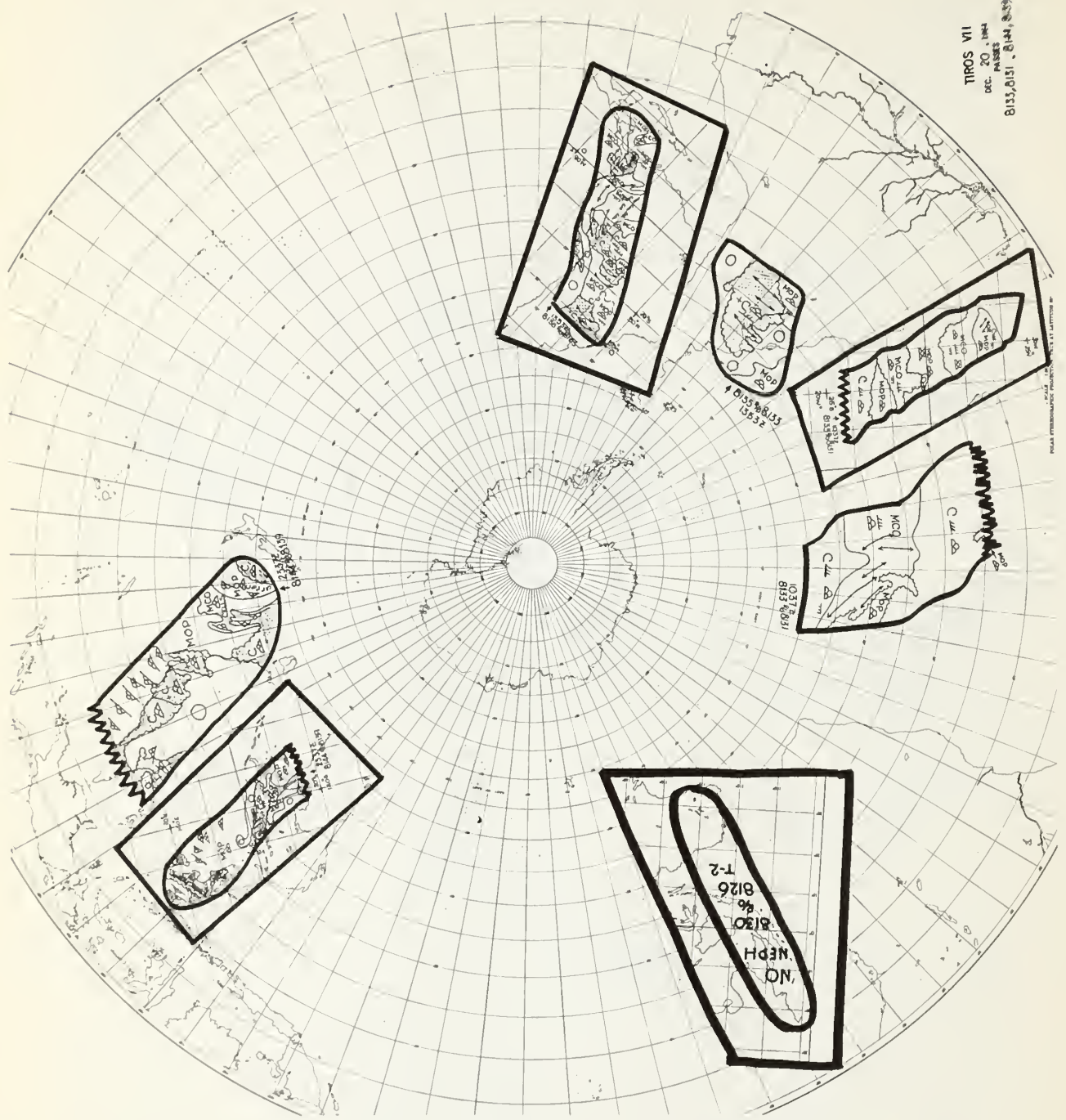
TIROS VII
 DEC 17, 1964
 8088/8081-8091/8089



U.S. AIR FORCE
 POLAR HYDROGRAPHIC TRANSMISSION DATA AT LATITUDE 80°

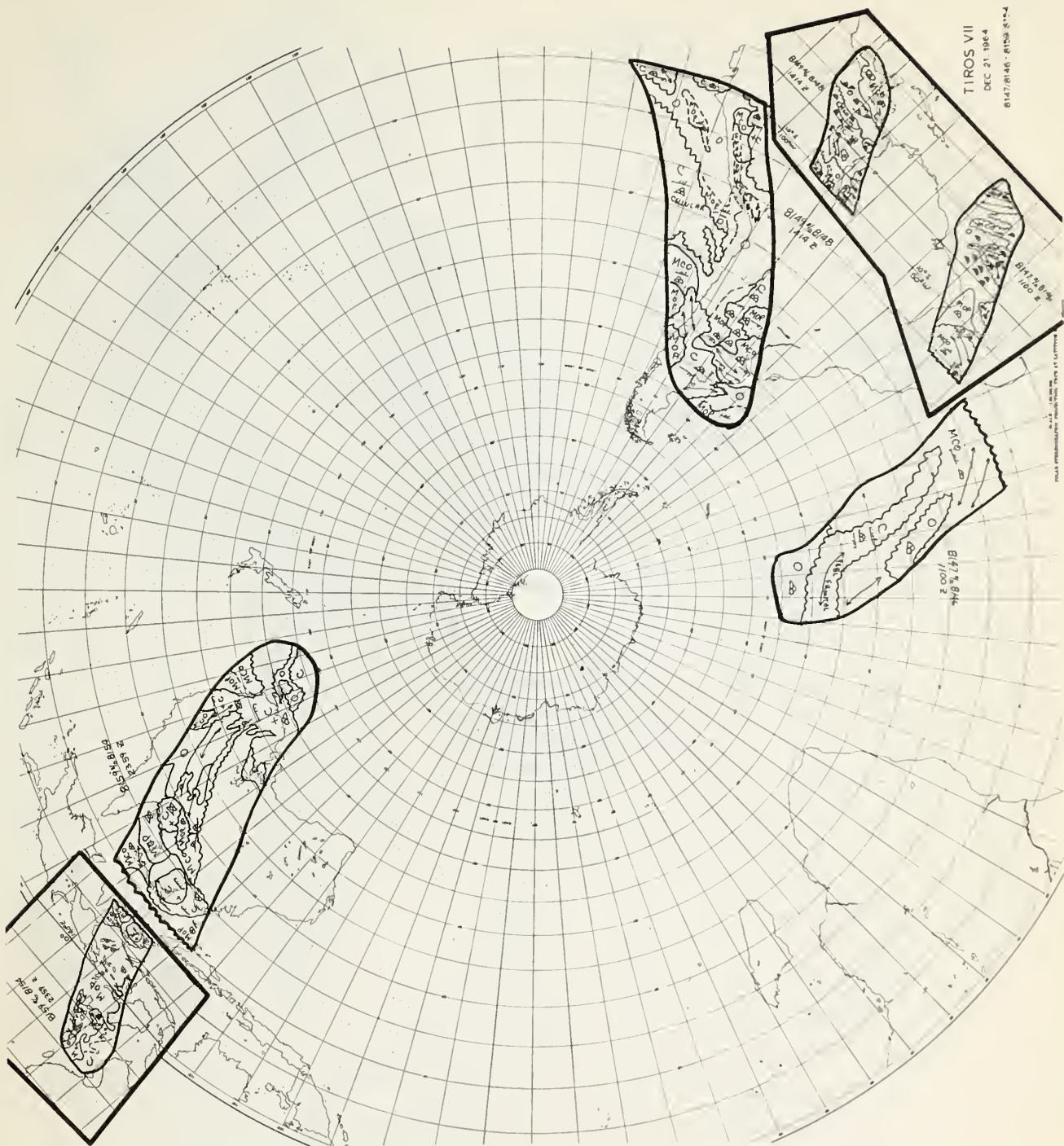


TIROS VII
 DEC. 20, 1964
 PASSES
 8133, 8131, 8144, 8139

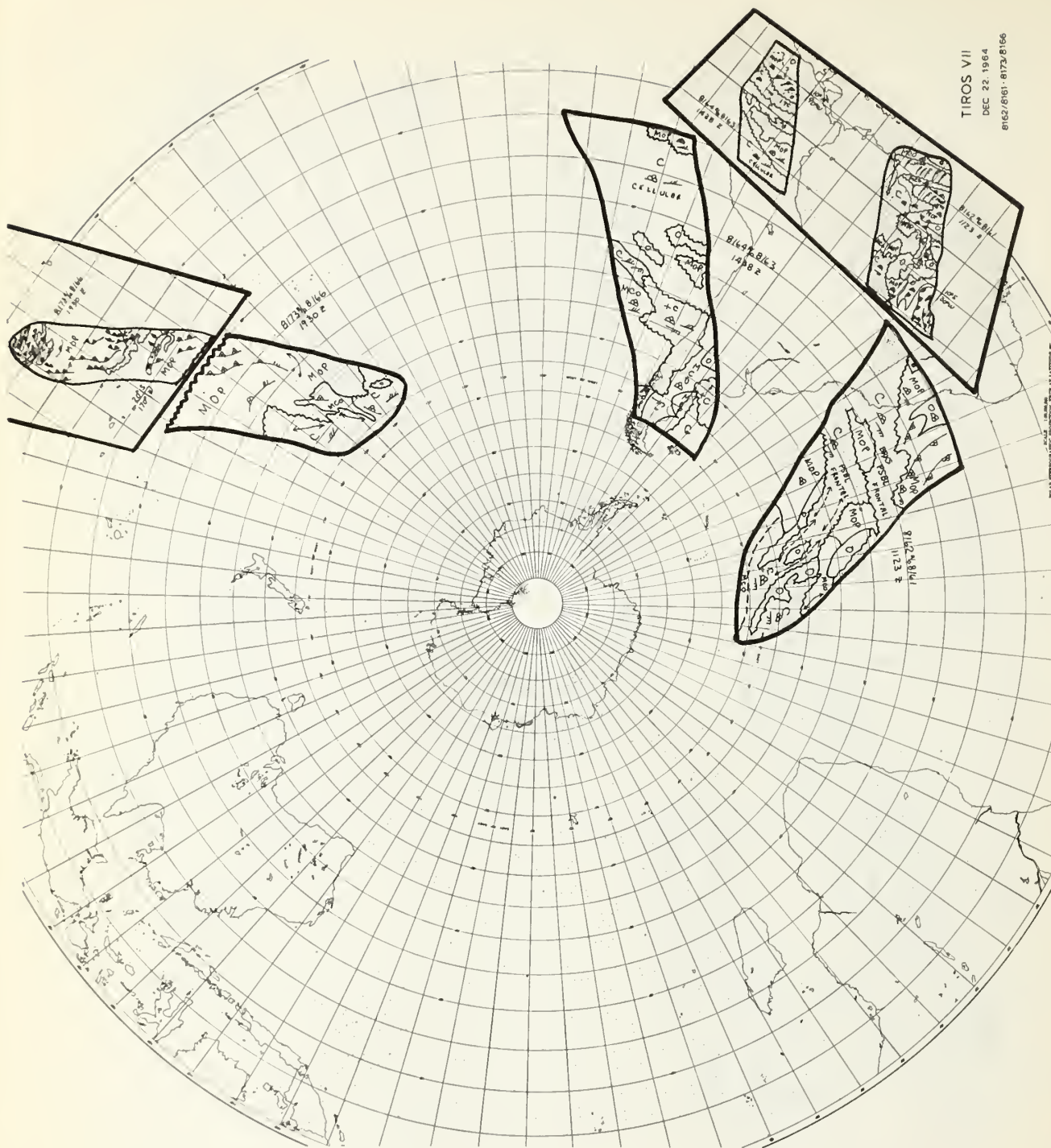


ARCTIC REGION, 15° N. LATITUDE 80°

TIROS VII
 DEC 21 1964
 6147/8146-8150-8154

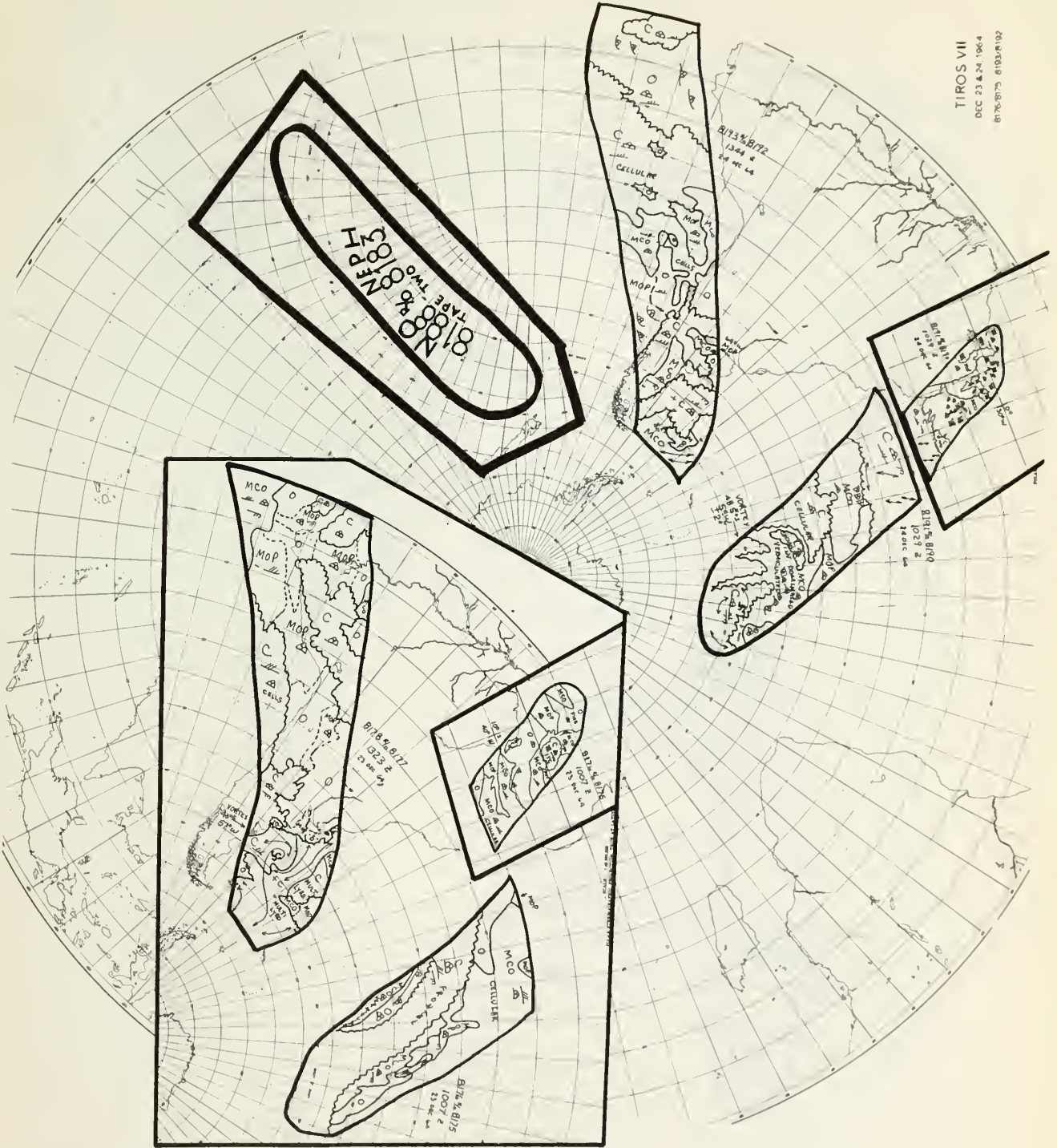


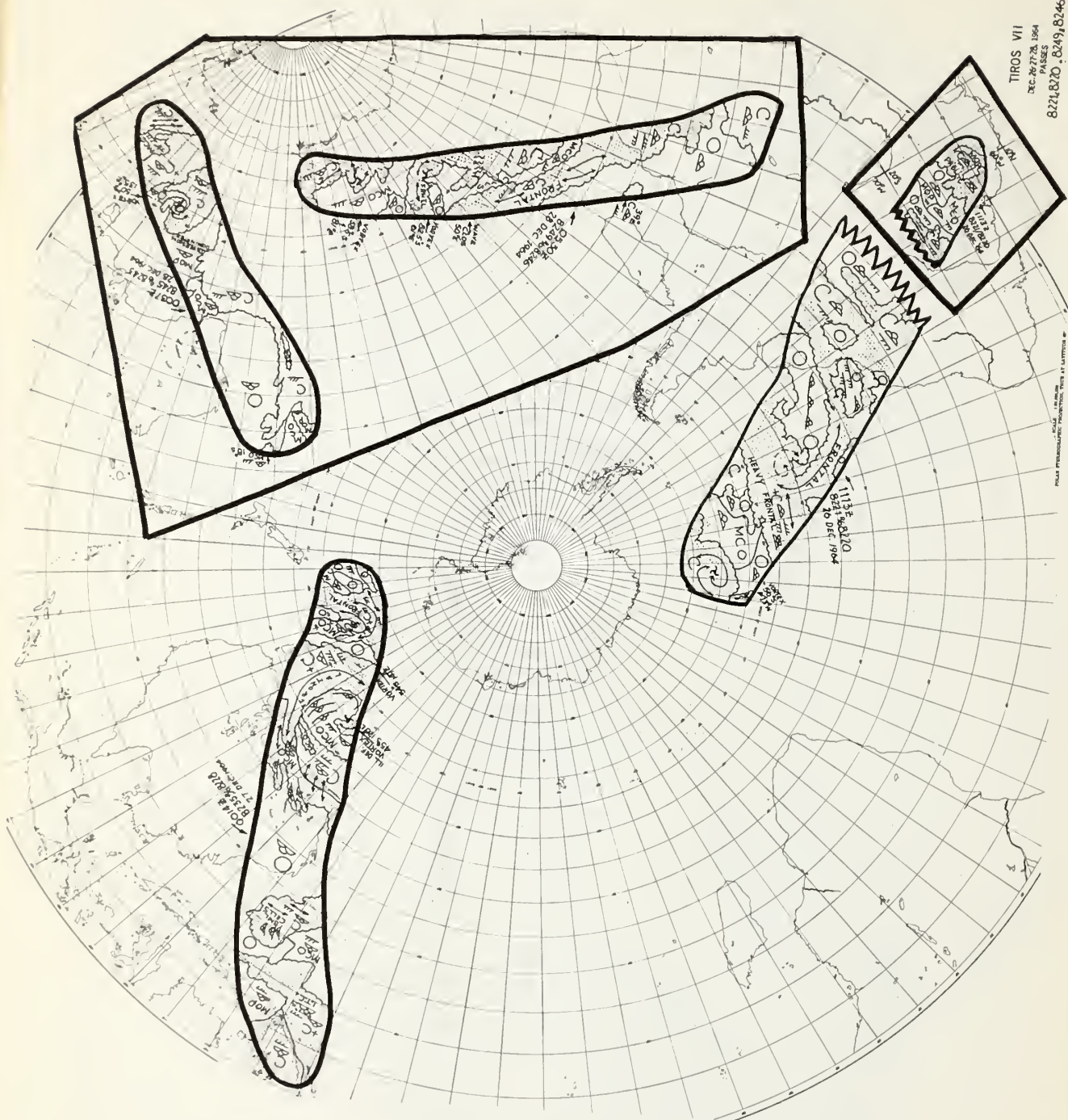
SCALE 1 IN. = 100 YDS.



TIROS VII

DEC 23 & 24, 1964
8176-8175 8103-8102



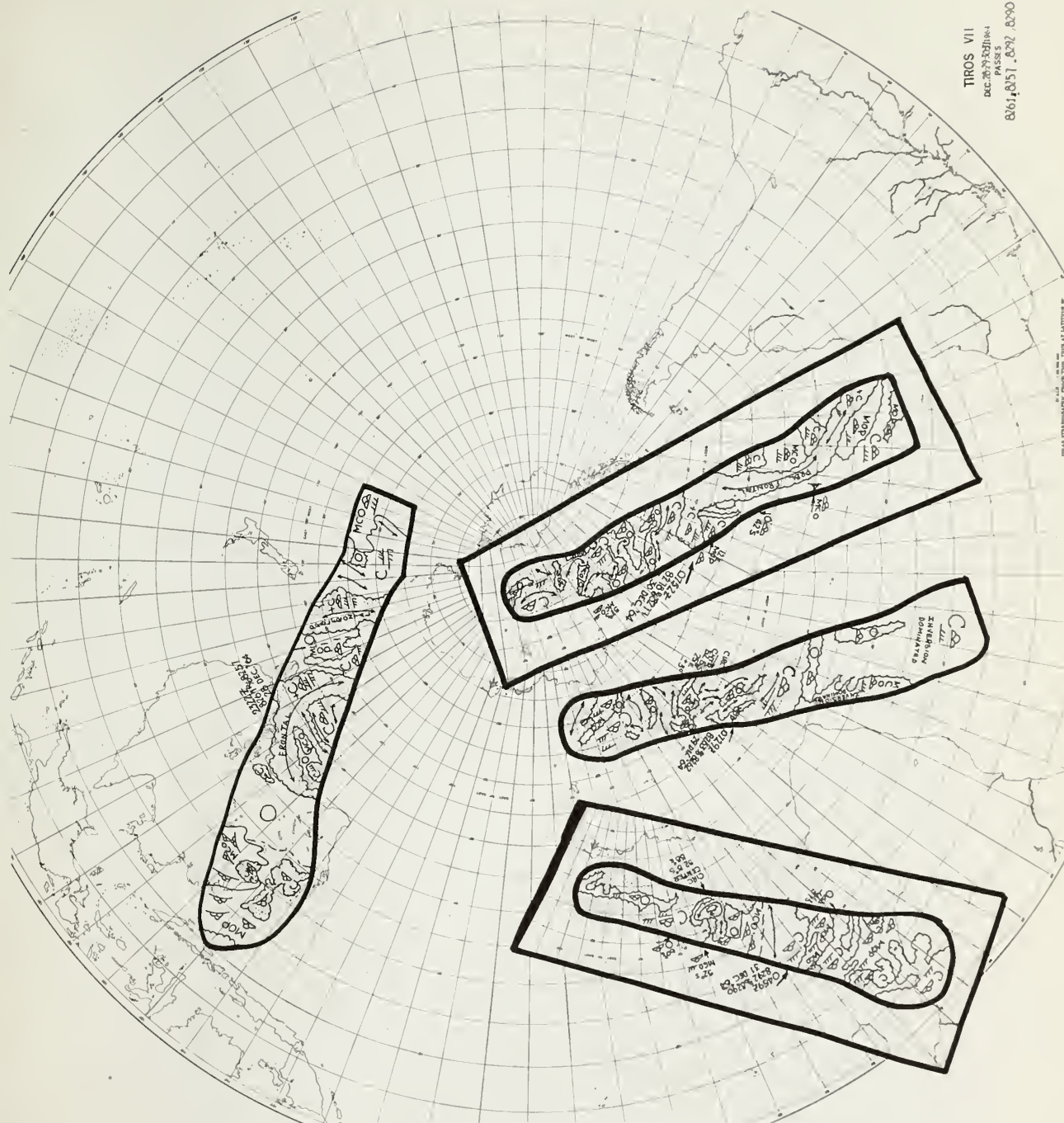


TIROS VII

DEC. 26 27 28 1964

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PASSES
8221, 8220, 8249, 8246



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